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PERSONAL.

Mr. Edwin C. Baggs has been appointed Receiver of the Denver City Cable Co., Denver, Colo.

Mr. Harry T. Litchfield has been appointed Superintendent of the electric light plant at Lilly Dale, N. Y.

Mr. Paul Dato has been appointed Superintendent of the water-works at Hillsboro, Tex., to succeed Mr. O. J. Morris, resigned.

Mr. L. F. Bellinger, civil engineer, of Atlanta, Ga., has been commissioned Captain in the Third Regiment of U. S. Volunteer Engineers.

Gen. Thomas S. Mumford, of Baltimore, Md., has been elected President of the Chesapeake & Ohio Canal Co., to succeed Mr. Stephen Gambrill.

Messrs. Bartl & Smith, civil and mining engineers, have removed their offices from 507 Lackawanna Ave., to the Connell Bldg., Wyoming Ave., Scranton, Pa.

Mr. W. H. Gridley has been appointed Superintendent of the St. Louis, Peoria & Northern Ry., with headquarters at Springfield, Ill., to succeed Mr. L. S. Graves, resigned.

Mr. John W. Hill, M. Am. Soc. C. E., of Cincinnati, O., has been appointed expert for the city of Indianapolis, Ind., to determine the physical condition of the plant of the Indianapolis Water Co.

Mr. Charles H. Meyers, M. Am. Soc. C. E., has resigned his position as Engineer of Sewer Construction in the Borough of Brooklyn, and has resumed private practice at 45 Broadway, New York.

Mr. John F. Hayford, Assoc. M. Am. Soc. C. E., Ithaca, N. Y., has been appointed Expert Computer and Geodesist in the U. S. Coast and Geodetic Survey, and is charged with the duties of chief computer.

Mr. William C. Winter, Assistant, Claim Agent of the Chicago, St. Paul, Minneapolis & Omaha Ry., with headquarters in St. Paul, Minn., has been appointed an Assistant Superintendent of the Union Pacific R. R.

Mr. Eugene W. Stern, M. Am. Soc. C. E., for the past six years Engineer of the Koken Iron Works, St. Louis, Mo., has accepted the position of Chief Engineer of the Jackson Architectural Iron Works, New York city.

Mr. Almon B. Atwater, M. Am. Soc. C. E., Division Superintendent of the Western Division of the Grand Trunk Ry., with headquarters at Detroit, Mich., has been appointed Assistant General Superintendent of the Michigan Central R. R.

Mr. Stewart Brown, Vice-President and Manager of the National Surety Co., of New York city, has been elected President of the Erie & Central New York Ry., to succeed Mr. Wayland D. Tinsdale, resigned, with headquarters at Cortland, N. Y.

Mr. Howard Gould has been elected President of the Tubular Dispatch Co., New York city, to succeed Mr. John E. Milholland. This company controls the New York Mail & Transportation Co., which owns the pneumatic mail tube lines crossing the New York and Brooklyn Bridge.

Mr. George Chipman Martin, C. E., formerly a member of the staff of Engineering News, has been appointed a Second Lieutenant of Infantry in the regular army of the United States. Mr. Martin is a graduate of the Engineering Department of the University of Vermont, in the class of 1892.

Mr. J. Francis Le Baron, M. Am. Soc. C. E., of Jacksonville, Fla., has been appointed a Captain in the Tenth U. S. Volunteer Infantry, but has declined in order to go to Honduras, where he has been appointed Chief Engineer of the Improvement of the Patuca River and Bar, as noted in our last issue.

Mr. Hadley Baldwin, Supervisor of Track of the Cleveland, Cincinnati, Chicago & St. Louis Ry., with headquarters at Terre Haute, Ind., has been appointed Engineer of Maintenance of Way of the Chicago Division, with headquarters at Indianapolis, Ind., to succeed Mr. T. O. Morris.

Mr. David Molitor, M. Am. Soc. C. E., United States Assistant Engineer on River and Harbor Improvements, with offices in the Telephone Bldg., Detroit, Mich., will take charge of a precise level party which will run a duplicate line between Lake St. Francis and Cape Vincent, along the St. Lawrence River, Ontario, for the United States Deep Water-Ways Commission and the United States Lake Survey.

Maj. A. Macomb Miller, M. Am. Soc. C. E., Corps of Engineers, U. S. Army, with headquarters in New York city, has relieved Col. T. A. Bingham, temporarily in charge of the Washington Aqueduct. He will assume the work of completing the Lydecker tunnel and reservoir, authorized by a recent act of Congress.

Mr. William P. Richards, civil engineer, has been appointed Surveyor of the District of Columbia, to succeed Capt. Henry Brigham Looker, Assoc. M. Am. Soc. C. E., First District of Columbia Volunteers, who is at the front. Mr. Richards for the past seven years has had charge of the extension of streets in the district.

Mr. Alfred M. Quick, formerly an assistant in the City Engineer's Office, Providence, R. I., and to Mr. Samuel M. Gray, M. Am. Soc. C. E., of the same city, and recently Assistant Engineer of the Water Department, Baltimore, Md., has become associated as a member of the firm of Hill & Howard, consulting engineers, with offices in the Manufacturers' Record Bldg., Baltimore.

Mr. William Ogilvie has been appointed by the government of the Dominion of Canada as Commissioner of the newly organized Yukon Territory, at a salary of $5,000 a year. He was born near Ottawa, Ont., 52 years ago, and became a land surveyor, entering the government service in June, 1875. His first permanent position was that of a chief clerk and astronomer in the Interior Department. In April, 1887, he was first sent to the Yukon region and commissioned to produce the 141st meridian, which, by the treaty of St. Petersburg, is designated as the dividing line between Canada and Alaska, from Mount St. Elias to the Arctic Ocean. On this work he was engaged for many months, and during that time made a survey of the region around the Mackenzie River and Lake Athabaska. He started on his second trip to the Yukon, June 19, 1895, and did not return for two and a half years. He was there when the rush of gold seekers to the Yukon began, and immediately became a commanding figure. His report to the Dominion government on the Yukon gold fields, which he presented upon his return, is the best description of this region that has ever been made. His appointment is a well-deserved recognition of a faithful and capable official.

OBITUARY.

Mr. Henry Amerige, formerly Superintendent of Streets of Malden, Mass., died July 14, aged 80.

Hon. Eliada S. Merrell, President of the Board of Water Commissioners of Lowville, N. Y., died July 4.

Mr. Napoleon B. Hafer, who is said to have been the first one to introduce brick paving in the West, died in Bloomington, Ill., July 10, aged 73.

Mr. F. A. Bishop, civil engineer, of Bristol, Conn., died July 4, aged 68. He went to California in 1855 and spent many years there, holding the position of Engineer to the State Board of Harbor Commissioners until 1884.

Sir Robert Rawlinson, the famous English sanitary engineer, who died on May 31, 1898, as announced in our issue of June 16, left a personal estate of $414,155. In his will, lately proven, he leaves the income of his residuary estate to Lady Rawlinson during her life, with power to dispose of one moiety of the estate. He leaves $5,000 to the Institution of Civil Engineers, and the ultimate remainder, estimated at about $175,000, will be paid to the trustees of St. Thomas Hospital.

Mr. Charles A. Ellis, contractor, of Kansas City, Mo., was drowned at Noel, Mo., July 4. He was born in Boone county, Ind., 34 years ago, and was educated at Earlham College, Richmond, Ind. In 1884 he went to Kansas City, Kan., and entered the office of the County Surveyor. He left this to enter the office of the City Engineer, and was himself appointed to the latter office five years later, in 1891. He served in this capacity for six years, and then resigned to engage in the contracting business, which he followed until his death.

Mr. Carl A. Trik, Superintendent of Bridges of the Bureau of Highways, of Philadelphia, Pa., died July 10. He was born April 28, 1841, at Wildberg, Germany, and became County Surveyor of Ulm. As one of the Royal Commissioners he established the boundary between Bavaria and Wurtemberg, and in 1881 came to this country. He became an assistant to Mr. Rudolph Hering, M. Am. Soc. C. E., of New York, and later entered the Survey Bureau of Philadelphia, as an Assistant Engineer, being in charge of the designing of the city's sewerage system. In 1888 he was appointed Superintendent of Bridges, which office he held continuously until the time of his death. About four or five months ago he was stricken with paralysis and later contracted a severe cold which developed into pneumonia.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
July 26. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
July 26 to 29. Annual convention at Detroit. Secy., C. W. Hunt, 220 W. 57th St., New York, N. Y.

WESTERN SOCIETY OF ENGINEERS.
Aug. 3. "Establishment of Street Grades," Chas. P. Chase. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

OHIO INSTITUTE OF MINING ENGINEERS.
Aug. 4. Summer meeting, Toledo, Ohio. Secy., Robert M. Hazeltine, Columbus, O.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Aug. 5. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

MONTANA SOCIETY OF ENGINEERS.
Aug. 13. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

ENGINEERS' CLUB OF MINNEAPOLIS.
Aug. 15. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

WESTERN FOUNDRYMEN'S ASSOCIATION.
Aug. 17. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

NEW ENGLAND ROAD MASTERS' ASSOCIATION.
Aug. 17. Annual meeting, Boston, Mass. F. C. Stowell, B. & M. R. R., Ware, Mass.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Aug. 18 to 20. Annual meeting at Massachusetts Institute of Technology, Boston, Mass. Secy., Albert Kingsbury, Durham, N. H.

AMERICAN CHEMICAL SOCIETY.
Aug. 22-23. Annual meeting, Boston, Mass. Secy., Albert C. Hale, 551 Putnam Ave., Brooklyn, N. Y.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 22-27. Annual meeting, Boston, Mass. Secy., F. W. Putnam, Salem, Mass.

OHIO INSTITUTE OF MINING ENGINEERS.—The annual summer meeting of this society will be held at Toledo on Aug. 4. The program includes a trip by water from Cleveland. About 100 are expected to attend.

CIVIL ENGINEERS CLUB OF CLEVELAND.—At the regular meeting held July 12 Mr. Oliver S. Hubbell, of the firm of Hubbell & Benes, delivered an address entitled "Marble versus granite." An abstract is given elsewhere in this issue. Wm. H. Searles, Secy.

INDEPENDENT TELEPHONE ASSOCIATION.—The 2d annual convention of this association was held at Chicago, Ill., June 30 and July 1-2. As the sessions were private, none but members being allowed to attend, nothing can be said of the work done, aside from the fact that a committee was appointed to propose changes in the constitution. The committee submitted a number of changes and amendments. Attendance was good, there being present representatives from independent companies in 14 states.

IRON AND STEEL INSTITUTE.—At the autumn meeting of this association scheduled for Aug. 26-27 at Stockholm, the following papers will be presented: "The Development of the Swedish Iron Industry," Richard Akerman; "The Most Prominent and Characteristic Feature of Swedish Ore Mining," Prof. G. Nordenström; "The Danger of Using Too Hard Rails," C. P. Sandberg; "The Action of Explosives on the Tubes of Steel Guns," Prof. W. C. Roberts-Austen; "Brittleness in Steel Produced by Annealing," J. E. Stead; "The Micro-Chemistry of Cementation," Prof. J. O. Arnold; "The Influence of Metalloids on Cast Iron," Guy R. Johnson.

NEW PUBLICATIONS.

ARIZONA WEATHER AND CLIMATE.—Bulletin No. 27. Arizona Agricultural Experiment Station, Tucson, Ariz. By Edw. M. Boggs, Irrigation Engineer and Meteorologist. Rewritten and added to by Nathan H. Barnes, Irrigation Engineer and Meteorologist. Paper; 6 × 9 ins.; pp. 50; tables.

The tables in this bulletin give temperature, dew point, humidity, vapor pressure, sunshine, cloudiness, evaporation, wind movement and barometric pressure records for varying periods, the longest being from October, 1891, to December, 1897. Besides these tables the text describes the methods employed in making the observations and discusses some of the most important features of the climate of Arizona.

UNSTEADY FLOW OF WATER IN PIPES.—By Prof. Irving P. Church. Reprinted from "Transactions of Association of Civil Engineers of Cornell University," 1898. Pamph.; 6 × 9 ins.; pp. 44. Address Prof. C. L. Crandall, Ithaca, N. Y., Secretary Association of Civil Engineers of Cornell University.

In this pamphlet the author develops formulas for the variation of pressure in long pipes when the flow therein is checked or accelerated, and compares the results with experimental results obtained in a thesis investigation made by Mr. B. F. Lattig, a graduate of Cornell in the class of 1894. A substantial agreement is shown. The paper should be practically useful to every engineer who has to do with water power development under high heads, and may be studied in connection with the editorial discussion in Engineering News of July 8, 1897.

REPORT OF THE PROVINCIAL INSTRUCTOR IN ROAD-MAKING, ONTARIO, 1897.—Published by the Ontario Department of Agriculture and printed by order of the Legislative Assembly of Ontario, Toronto. Paper; 9¾ × 6½ ins.; pp. 71; illustrated. Address Mr. A. W. Campbell, Provincial Instructor in Road-Making, Parliament Building, Toronto, Ontario.

A year or more ago we had occasion to favorably review the report of Mr. Campbell for 1896. The present report is a similar straightforward and useful document. Country roads take up the larger part of this issue and much good advice is given as to selecting and applying the road material, in repairing the roads and in adopting methods of paying for them. Boiled down, this section calls for systematic permanent work, thorough drainage, the proper application of good materials, the use of road machinery, prompt repairs, and stone, concrete or iron bridges. In other words, it pays to build only good roads. The numerous reports from cities, towns and villages include much useful information. Mr. Campbell notes as complete and excellent the frontage-tax system in force in Blenheim, Kent Co., Ontario. While this system differs but little from many in use in the United States, Mr. Campbell's description is valuable for its explanatory detail of the requirement under the law.

BRITISH RAILWAY STATISTICS.—Pub. Doc., London. Eight pamphlets; 8½ x 13 ins.; pp. 420.

These pamphlets contain the returns by the railways of Great Britain of the statistics of train accidents for the calendar year of 1897, and of continuous brake equipment for the last six months of the same year, and a half dozen special acts authorizing the construction of as many "light railways" in different parts of the kingdom.

Altogether 34 persons were killed and 476 were injured by accidents to trains during 1897, as compared with eight killed and 549 injured in 1896. Including accidents in which no personal injury was sustained three were reported during the twelve months; 31 collisions between passenger trains; 39 collisions between passenger trains and freight trains; 34 freight train collisions; one collision between train and cars standing foul of the line; 23 collisions between trains and buffer stops; 40 derailments of passenger trains; 20 derailments of freight trains; 255 cases of trains running through gates at level crossings or other obstructions; 11 cases of fire on trains, and 5 miscellaneous accidents. Including railway accidents of all kinds, 1,165 persons were killed and 6,102 persons were injured.

The figures on continuous brakes show that on Dec. 31, 1897, 99.8% of the locomotives and 99.4% of the total passenger cars owned by British railways were provided either with vacuum brakes or Westinghouse automatic brakes.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

WATER AND GAS SPECIALTIES.—H. Mueller Mfg. Co., Decatur, Ill. Pamphlets; paper.

These six pamphlets, with two to eight pages each, deal with various specialties, including the Mueller water main tapping machine, water pressure regulator, flange coupling, spiral screw and tool drivers, and an extensive line of cocks, taps, etc.

PRESS CLIPPINGS.—Robert & Linn Luce, 68 Devonshire St., Boston, Mass. Pamph.; 7 x 4½ ins.; 32 pp.; illustrated.

This pamphlet gives a history of The Press Clipping Bureau and a list of some of its patrons. The bureau was started in Boston, in 1888, and now has well established reading rooms in Boston, New York, Cincinnati and Denver. It claims to cut and deliver nearly 15,000 newspaper clippings a day at its different offices.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
July 21.	School building,	Dayton, O.	July 7
July 21.	Sewers,	Amsterdam, N. Y.	July 7
July 21.	Heating and ventilating,	Syracuse, N. Y.	July 14
July 21.	Widening bridge,	Paterson, N. J.	July 14
July 21.	Water tower, hydrants, etc.,	Chicago Junct'n, O.	July 14
July 21.	School building,	Poplar Bluff, Mo.	July 14
July 21.	Sewerage system,	Goldsboro, N. C.	July 14
	Advertised, Eng. News, July 7 and 14.		
July 21.	Brick paving,	Scranton, Pa.	July 14
July 21.	Pipe sewers,	Brewer, Me.	July 21
July 21.	Pipe sewers,	East St. Louis, Ill.	July 21
July 21.	Laying water pipe,	Boston, Mass.	July 21
July 22.	Ventilating, wiring, etc.,	Newark, N. J.	July 21
July 22.	Brick paving, etc.,	East St. Louis, Ill.	July 21
July 22.	Bridge abutment,	Summerville, Ont.	July 21
July 22.	street work (1 street),	Duluth, Minn.	July 14
July 22.	Water-works,	Cass City, Mich.	July 14
July 22.	Repairing garbage dumper,	New York	July 14
July 22.	Electric light plant,	Cass City, Mich.	July 14
July 22.	Main brick sewer,	Louisville, Ky.	July 14
July 22.	Gravel road,	Waterbury, Conn.	July 14
July 22.	Paving,	Lima, O.	July 14
July 22.	Paving,	Louisville, Ky.	July 14
July 22.	Water-works,	Sparta, Minn.	July 7
July 22.	Hydraulic dredge,	St. Louis, Mo.	June 23
	Advertised, Eng. News, June 23 to July 14.		
July 22.	Grading, road work, etc.,	California, O.	June 30
July 23.	Water-works,	Beatrice, Neb.	June 30
July 23.	Cement sidewalks,	Washington, D. C.	June 23
	Advertised, Engineering News, June 23.		
July 23.	Paving,	Carbondale, Pa.	July 7
	Advertised, Eng. News, July 7 to 21.		
July 23.	Embankment, etc.,	Shelton, Wash.	July 14
July 23.	Water pipe,	Batavia, Ill.	July 14
July 23.	Iron bridges (4),	Wilkes Barre, Pa.	July 14
	Advertised, Eng. News, July 14 and 21.		
July 23.	Church building,	Bay City, Mich.	July 14
July 23.	Lamp posts (300),	Washington, D. C.	July 21
July 23.	Bridge,	Aitken, Minn.	July 21
July 24.	Bridge work,	St. Joseph, Mo.	July 14
July 25.	Church building,	Holgate, O.	July 14
July 25.	County building,	Chatham, Va.	July 14
July 25.	School building,	Spencer, O.	July 14
July 25.	Municipal building, etc.,	Stratford, Ont.	July 14
July 25.	Jail, etc.,	Ottawa, O.	July 14
July 25.	Heating, etc.,	Columbus, Neb.	July 14
July 25.	Sewerage system,	Kewanee, Ill.	July 14
	Advertised, Engineering News, July 14.		
July 25.	Retaining wall,	Cincinnati, O.	July 14
July 25.	Drainage ditch,	Harvel, Ill.	July 14
July 25.	Lighthouse supplies,	Tompkinsville, S. I.	July 14
	Advertised, Eng. News, July 14 and 21.		
July 25.	Cement sidewalks,	South Bend, Ind.	July 14
July 25.	Grading, paving, etc.,	Sullivan, Ind.	July 14
July 25.	Lighting bonds,	Lebanon, O.	July 7
July 25.	Asphalt paving,	South Bend, Ind.	July 7
July 25.	School buildings,	Mansfield, O.	July 7
July 25.	Water-works,	Winnipeg, Man.	June 2
	Advertised, Eng. News, June 2 to 23.		
July 25.	Timber,	Willetts Point, N. Y.	June 30
July 25.	Sewers,	Chicago, Ill.	July 21
July 25.	Grading,	Malvern, Pa.	July 21
July 25.	Sterilizing apparatus,	Dunning, Ill.	July 21
July 25.	Protection dikes,	Bridgeport, Okla.	July 21
July 25.	Brick sewer,	McKees Rocks, Pa.	July 21
July 25.	Pipe sewers,	New Ulm, Minn.	July 21
July 25.	Brick school building,	Laurel, Md.	July 21
July 25.	Dry air system,	Dunning, Ill.	July 21
July 25.	Club house,	Lawrence, Kan.	July 21
July 25.	Relaying water pipe,	Tonawanda, N. Y.	July 21
July 25.	Water bonds,	White Plains, N. Y.	July 21
July 25.	Asphalt or brick paving,	McKees Rocks, Pa.	July 21
July 25.	Brick paving,	Norwich, N. Y.	July 21
	Advertised, Engineering News, July 21.		
July 25.	Macadamizing, etc.,	Mount Vernon, N. Y.	July 21
July 25.	Paving,	Cortland, N. Y.	July 21
	Advertised, Engineering News, July 21.		
July 25.	Graveling, etc.,	New Ulm, Minn.	July 21
July 25.	Street bonds,	Jefferson City, Mo.	July 21
July 26.	Sewers,	Huntington, Ind.	July 21
July 26.	Water meters,	Camden, N. J.	July 21
July 26.	Naval station,	Newport, R. I.	July 21
July 26.	Annex to pumping station, etc.,	Philadelphia	July 21
July 26.	Water-works,	Yale, Mich.	July 21
	Advertised, Engineering News, July 7.		
July 26.	Bridge work,	Annapolis, Md.	July 21
July 26.	Electric light plant,	Sycamore, O.	June 30
July 26.	Water-works,	Sycamore, O.	June 30
July 26.	School building,	Columbus, Neb.	July 14
July 27.	Fire engines, repairs, etc.,	New York	July 14
July 27.	Dam, lay'g water pipe, etc.,	Huntington, Mass.	July 14
July 27.	Asphalt paving, etc.,	Jersey City, N. J.	July 14
July 27.	Heating plant,	Madison, Wis.	July 14
July 27.	Church building,	Moro, Ore.	July 7
July 27.	Paving,	Charleston, Ill.	July 7
July 27.	Water supply,	Ridgewood, N. J.	June 23
	Advertised, Engineering News, June 23.		
July 27.	Bridge,	Carthage, O.	June 30
July 27.	Brick paving,	Meadville, Pa.	July 21
	Advertised, Engineering News, July 21.		
July 27.	Paving,	Buffalo, N. Y.	July 21
July 27.	Dredging,	Brooklyn, N. Y.	July 21
July 28.	Electric light plant,	Gaylord, Minn.	July 21
	Advertised, Engineering News, July 21.		
July 28.	Street railway,	Plymouth, Mass.	July 21
July 28.	Sewers,	North Braddock, Pa.	July 21
July 28.	Stone flag, etc.,	Brooklyn, N. Y.	July 21
July 28.	Pipe sewers,	New York, N. Y.	July 21
July 28.	Iron sewer pipe, etc.,	London, Ont.	July 21
July 28.	Water mains,	New York, N. Y.	July 21
July 28.	Cleaning paved streets,	Buffalo, N. Y.	July 21
July 28.	Iron bridge,	New Philadelphia, O.	July 21
July 28.	Masonry work,	Louisville, Ky.	June 30
	Advertised, Eng. News, June 30 to July 21.		
July 28.	Water pipe, hydrants, etc.,	Renovo, Pa.	July 14
	Advertised, Eng. News, July 14 and 21.		
July 29.	Hospital building,	Cleveland, O.	July 14
July 29.	Pike road,	Spencer, Ind.	July 14
July 29.	Sluice gates,	Cincinnati, O.	July 7
	Advertised, Eng. News, July 7 to 21.		
July 29.	Pine timber,	New York, N. Y.	July 21
July 29.	Viaduct,	Chicago, Ill.	July 21
July 29.	Sewers,	Omaha, Neb.	July 21
July 29.	Telephone system,	Mankato, Minn.	July 21
July 29.	Addition to school,	Buffalo, N. Y.	July 21
July 29.	Grading, etc.,	Richmond, Ind.	July 21
July 29.	Paving,	Omaha, Neb.	July 21
July 30.	Sewer system, disposal beds,	Flemington, N. J.	July 21
	Advertised, Eng. News, July 21 and 28.		
July 30.	Pipe sewers,	Aurora, Ind.	July 21
July 30.	Street bonds,	Ashland, O.	July 21
July 30.	Bridge, St. Hermenegilde,	Que.	July 21
July 30.	Brick paving,	Ashland, O.	July 7
	Advertised, Eng. News, July 7 and 14.		
July 30.	Iron bridge,	Cincinnati, O.	July 7
July 30.	Gas and naphtha lighting,	Washington, D.C.	July 14
	Advertised, Engineering News, July 14.		
July 30.	Buildings,	Ellis Island, N. Y. H.	July 14
July 30.	Court house and jail,	Cando, N. Dak.	July 14
July 30.	School building,	Provo City, Utah	July 14
July 30.	School building,	Elbowood, N. Dak.	July 14
July 30.	Electric lighting,	Washington, D. C.	July 14
	Advertised, Engineering News, July 14.		
July 31.	Brick paving,	Independence, Kan.	July 14
July 31.	Water supply,	Tangier, Morocco	June 23
July 31.	Street bonds,	Canton, O.	July 21
Aug. 1.	Macadamizing, etc.,	Suffield, Conn.	July 21
Aug. 1.	Pipe sewers,	Elizabeth, N. J.	July 21
Aug. 1.	School bonds,	Taylorsville, Ill.	July 21
Aug. 1.	Lighthouse,	New Haven, Conn.	July 21
	Advertised, Eng. News, July 21 and 28.		
Aug. 1.	Street bonds,	Berea, O.	July 21
Aug. 1.	Jail building,	Richfield, Utah	July 21
Aug. 1.	Asphalt paving,	Buffalo, N. Y.	July 21
Aug. 1.	Water pipe, etc.,	Rock Island, Ill.	July 14
Aug. 1.	Bridge,	Centralia, Wash.	July 21
Aug. 1.	Bridges (3),	Chehalis, Wash.	July 21
Aug. 1.	Bridges (200 ft.),	Claquato, Wash.	July 21
Aug. 1.	Electric light plant,	Charleston, S. C.	June 30
	Advertised, Eng. News, June 30 to July 21.		
Aug. 1.	Power canal,	Ellensburg, Wash.	June 30
Aug. 1.	Bonds ($8,000.)	Ellensburg, Wash.	June 30
Aug. 1.	Jail building plans,	Syracuse, N. Y.	July 7
Aug. 1.	Steel bridge,	Stockton, Mo.	July 7
Aug. 1.	Iron bridges (3),	Wichita, Kan.	July 7
Aug. 1.	School building,	Bloomfield, N. J.	July 14
Aug. 1.	Steel bridge,	Lake Belt, Minn.	July 14
Aug. 1.	Pile bridges (3),	Red Cloud, Minn.	July 14
Aug. 1.	Boilers, heaters, etc.,	Concord, Mass.	July 14
	Advertised, Engineering News, July 14.		
Aug. 1.	Macadamizing,	Toledo, O.	July 14
Aug. 1.	Macadam road,	Proviso, Ill.	July 14
Aug. 1.	Paving,	Kewanee, Ill.	July 14
Aug. 2.	Bridge,	Jackson, Miss.	July 14
Aug. 2.	Steam heating,	Hartwell, O.	July 14
Aug. 2.	Dredging,	Lorain, O.	July 14
	Advertised, Eng. News, July 14 and 21.		
Aug. 2.	Bonds,	Holly Springs, Miss.	July 7
Aug. 2.	Road work,	Anaconda, Mont.	July 7
Aug. 2.	Arc lighting,	Lebanon, Pa.	June 30
Aug. 2.	Steel rails,	Ottawa, Ont.	June 16
Aug. 2.	Bridge,	Lodi, Cal.	July 21
Aug. 2.	Electric light plant,	Indianapolis, Ind.	July 21
Aug. 2.	City hall,	Centralia, Ill.	July 21
Aug. 2.	Repairing asphalt, etc.,	Brooklyn, N. Y.	July 21
Aug. 2.	Pipe sewer,	Wallingford, Conn.	July 21
	Advertised, Eng. News, July 21 and 28.		
Aug. 2.	Wharf,	Point Wilson, Wash.	July 21
Aug. 2.	Electric light plant,	Yale, Mich.	July 21
	Advertised, Engineering News, July 7.		
Aug. 2.	Y. M. C. A. hall,	Waterloo, Ia.	July 21
Aug. 2.	Pumping station,	Albany, N. Y.	July 21
	Advertised, Engineering News, July 21.		
Aug. 2.	Paving cement,	New York, N. Y.	July 21
Aug. 2.	Bridge,	Bloomfield, Cal.	July 21
Aug. 3.	Hoist bridge,	Sidney, O.	July 21
Aug. 2.	Brick paving,	Kewanee, Ill.	July 21
Aug. 3.	Levee work,	West Memphis, Ark.	June 30
	Advertised, Eng. News, June 30 to July 28.		
Aug. 3.	Paving, etc.,	Cincinnati, O.	July 14
Aug. 3.	Electric light plant,	London, Ont.	July 14
	Advertised, Eng. News, July 14 and 21.		
Aug. 4.	Dam, tunnel, etc.,	Ogden, Utah.	July 21
	Advertised, Engineering News, July 21.		
Aug. 4.	Addition to court house,	York, Pa.	July 21
Aug. 4.	Water pipe,	Cattaraugus, N. Y.	July 21
Aug. 5.	Pier,	Cleveland, O.	July 14
Aug. 6.	Street work,	Mansfield, O.	July 14
Aug. 6.	Dike,	York River, Va.	July 7
	Advertised, Eng. News, July 7 to 28.		
Aug. 6.	Bridge work,	Olympia, Wash.	July 21
Aug. 6.	Dredging, etc.,	Virginia.	July 7
	Advertised, Eng. News, July 7 and 14.		
Aug. 8.	Sewers,	Toledo, O.	July 21
Aug. 8.	School building,	Peterson, Utah.	July 21
Aug. 8.	Street bonds,	Lima, O.	July 21
Aug. 8.	Paving,	Toledo, O.	July 21
Aug. 8.	Street work,	Lafayette, Ind.	July 21
Aug. 8.	Water pipe, etc.,	Winnipeg, Man.	June 16
	Advertised, Eng. News, June 16 to 30.		
Aug. 8.	Brick paving,	Anderson, Ind.	July 14
Aug. 8.	Repairing asphalt,	Cincinnati, O.	July 14
Aug. 9.	Street work,	Orrville, O.	July 14
Aug. 9.	Torpedo boats,	Washington, D. C.	July 7
Aug. 9.	Furniture,	Binghamton, N. Y.	July 21
	Advertised, Eng. News, July 21 and 28.		
Aug. 10.	Bridge,	Batavia, O.	July 21
Aug. 10.	Iron truss bridge,	Cincinnati, O.	July 21
Aug. 10.	Bridge bonds,	Cincinnati, O.	July 14
Aug. 10.	Bridge masonry work,	Norristown, Pa.	July 14
Aug. 10.	Water-works,	Pomeroy, O.	July 14
	Advertised, Engineering News, July 14.		
Aug. 10.	Macadamizing,	Cincinnati, O.	July 14
Aug. 12.	Art building addition,	Des Moines, Ia.	July 21
Aug. 15.	Paving, etc.,	Fremont, O.	July 21
Aug. 15.	Grading,	Omaha, Neb.	July 21
Aug. 15.	Exhibition bldg. plans,	Glasgow, Scotland.	June 23
Aug. 16.	Electric light plant,	Minster, O.	July 21
Aug. 17.	Bridge substructures (2),	Cleveland, O.	July 21
Aug. 18.	Water supply,	Jersey City, N. J.	July 14
Aug. 20.	Electric lighting,	Whitesboro, N. Y.	July 14
	Advertised, Eng. News, July 14 and 21.		
Aug. 20.	Street bonds,	Malta, O.	July 21
Aug. 23.	Water pipe,	Coolgardie, West Australia	June 23
Aug. 26.	Pump engines (2),	Minneapolis, Minn.	July 21
	Advertised, Eng. News, July 21 to Aug. 11.		
Aug. 30.	Plans for electric traveling crane,	Chicago.	July 21
Aug. 31.	Custom house,	Guayquil, Ecuador	Apr. 21
Sept. 1.	Battleships (3),	Washington, D. C.	June 23
Sept. 1.	Bridge system,	Savannah, Ga.	June 30
	Advertised, Eng. News, June 23 to Aug. 25.		
Sept. 1.	Electric light plant,	Cullman, Ala.	July 21
Sept. 1.	Water-works,	Norwood, N. Y.	July 21
Sept. 3.	Sewage pumping station,	Boston, Mass.	July 7
	Advertised, Eng. News, July 7 and 14.		
Sept. 12.	Hospital plans,	San Francisco, Cal.	Mar. 24
Oct. 1.	Monitors (4),	Washington, D. C.	July 7
Oct. 1.	School building (equipment),	St. Thomas, Ont.	July 7
Oct. 24.	Markets, etc.,	Belem, Brazil	Apr. 28
Oct. 30.	School building,	Chehalis, Wash.	June 16
Dec. 31.	Plans for station, etc.,	Stockholm, Sweden.	June 23
No date.	Pump engine,	Martinsburg, W. Va.	July 21
"	Water-works,	Smith's Grove, Ky.	July 21
"	Garbage disposal plant,	Newport, Ky.	July 21
	Advertised, Engineering News, July 21.		

RAILWAYS.

CATSKILL & TANNERSVILLE.—Thos. E. Brown, Ch. Engr., 38 Park Row, New York, informs us that the line is under construction from Otis Summit to Twilight Park, about 4½ miles, the contract having been let to the Otis Engineering & Construction Co., New York. Grading has just been commenced on 3½ miles of road. The motive power has not yet been decided upon. Pres., C. L. Rickerson, 54 Harrison St., New York.

CENTRAL ONTARIO.—John D. Evans, Ch. Engr., Trenton, Ont., informs us that surveys will be commenced Aug. 1 on the proposed extension of this railway from Ormsby to Bancroft, via L'Amable, Ont. Financial arrangements have not yet been completed, so it is at present uncertain when construction work will begin. Pres., Stevenson Burke, Cleveland, O.

CHEAT VALLEY.—J. J. Stoer, Girard Bldg., Philadelphia, Pa., informs us that seven miles of this new line have been built and the new town of Manheim started. The proposed route is from Rowlesburg to Uniontown, via Manheim, Stoer and Warthman, Pa., a distance of 33 miles. A. P. Hamilton, Rowlesburg, W. Va.

CHOCTAW, OKLAHOMA & GULF.—Bids are asked until July 25 for about 4,500 lineal ft. of protection dike work at Calvin, Ind. Ter., and Bridgeport, Okla., over the South Canadian River. The work is in three parts: 2,600 ft., 900 ft. and 1,000 ft. long, respectively. Ch. Engr., F. A. Molitor, South McAlester, Ind. Ter.

DECKERSVILLE, OSCEOLA & NORTHERN.—Improvements in the roadbed are now being made on this line between Deckersville, on the Kansas City, Fort Scott & Memphis R. R., and Wardell, Ark. It is also intended to extend the road through Mississippi county, Ark., and Pemiscott and New Madrid counties, Mo., to connect with the Cotton Belt Ry. at Pawpaw Junction, via Osceola and Blythesville, Ark., and Covington, Hayti, Bragadocia and Portageville, Mo., thus passing through a rich timber district. Bonds for this proposed extension have not yet been placed, and until that is done no new work can be undertaken. E. M. Ford, Vice-Pres., Deckersville, Ark.

DELAWARE.—W. C. Oliver, Andes, N. Y., writes us that surveys have been completed and the right of way obtained for this line, the incorporation of which was noted in our last issue. It is expected that the contract to construct the road will be let about Aug. 1. Pres., Henry Davie, Delhi; Ch. Engr., Thos. Murray, Delhi, N. Y.

DENTON & CAMBRIDGE—M. Bates Stephens, Denton, Md., informs us that owing to the fact that the question of having the county vote a subscription to aid the construction of this line cannot come up for another year, nothing can be done at this time toward building. It is proposed to construct a railway between Denton and Cambridge, Md., about 30 miles, which will act as a feeder to the Queen Anne's R. R.

DES ARC & NORTHERN.—W. H. Hipolite, Ch. Engr., Poplar Bluffs, Mo., writes us that construction will probably begin July 25 on the four-mile extension into Des Arc, and that it is hoped to complete the work about Sept. 15. New stations will be required at Higginson and Des Arc, Ark.

DULUTH & NEW ORLEANS.—Surveys for this new line are expected to be commenced shortly in Winnebago county, Ia. The company was incorporated June 10, with a capital stock of $300,000, to construct a railway from Duluth, Minn., to some convenient Gulf port, with headquarters at Nevada, Ia. The first 30 miles will be built as soon as possible. Robert B. Hunter, Ch. Engr., Mitchell, Ia.

DULUTH & NORTHERN MINNESOTA.—R. N. Marble, Asst. Gen. Mgr., Duluth, Minn., writes us that the grading is about three-quarters and the bridging about one-third finished on the first six miles of this line. The work is being done under the direction of the superintendent by day labor. Pres., M. S. Smith, Detroit, Mich.

EAST CAROLINA.—James Pender, Secy., Tarboro, N. C., informs us that the proposed route for this line, from Davisson to Crisp, N. C., a distance of 11 miles, has been surveyed twice, and about seven miles have been located, and the right of way obtained; there are already four miles of road built and in operation. Part of the capital stock has been secured, and the construction work will probably be done by the company. Pres., Henry Clark Bridgers, Tarboro, N. C.

FLORIDA & ALABAMA.—This company has applied for a charter in Alabama, to have a capital stock of $200,000, to construct a railway from Garland, on the Louisville & Nashville Ry., by River Falls, to Geneva, Ala., and thence into Florida. The incorporators are G. B. Frierson, P. J. Grant, Henry Stanley and E. C. Lewis, of River Falls, Ala., and J. H. Eakin, John S. Lewis and E. L. Moore, of Nashville, Tenn.

GALLATIN.—Frank A. Hall, Vice-Pres. and Gen. Mgr., of Bozeman, Mont., is quoted as saying that this company intends to begin work at once on the proposed extension of this line from Three Forks, Mont., up the Gallatin River to Yellowstone Park. A preliminary survey has been made.

GEORGIA.—Henry T. Clarke, care of B. F. Finney, 99 Bay St., Savannah, Ga., is constructing a connecting link of railway, 25 miles long, six miles of which has already been constructed, between two systems of railways. This link, when completed, will shorten the distance ten miles. Mr. Clarke desires to have a bond issue of $200,000 for the purpose of completing this road. Parties who desire information and prospectus of proposed work may address Mr. Clarke.

GROVE HILL & WHATLEY.—A. S. Johnston, Grove Hill, Ala., informs us that this proposed standard-gage road will run from Grove Hill, the county seat of Clarke county, to Whatley, six miles, connecting with the Mobile & Birmingham. A large amount of the stock has already been subscribed, and the survey will be made next week. Work will probably begin by Aug. 15.

GULF, BEAUMONT & KANSAS CITY.—Reports state that construction will soon commence on a 17-mile extension of this line from Silsbee, Tex., north. An extension is also proposed from Kirbyville to Tanaha, via Jasper, Tex., 100 miles. John H. Kirby, Vice-Pres. and Gen. Mgr., Houston.

GULF, COLORADO, & SANTA FE.—It is announced that a contract has been made by this company with the St. Louis Southwestern R. R. Co., whereby the former will have an entrance for its trains into Sherman, Tex., over the tracks of the St. Louis Southwestern. It is believed that this new arrangement will affect a large amount of business in northern Texas. C. F. W. Felt, Ch. Engr., Galveston, Tex.

JAMAICA.—Press reports from Kingston, Jamaica, state that the local government has assumed control of the Jamaica Ry., as the West India Improvement Co., which controlled the line, was unable to meet its liabilities. As the government cannot operate it to advantage, it is expected that the property will be sold.

LITTLE COAL RIVER.—H. J. Tondy, Huntington, W. Va., a member of this company, the incorporation of which was noted in our issue of the 7th, writes us that the preliminary survey has been made and the right of way secured for nearly the whole length. The contract has been let to Henry S. Hopkins, St. Louis, Mo. Pres., L. Roswell Sheffer, New York; Ch. Engr., Mr. Leete, Huntington, W. Va.

PENNSYLVANIA LINES WEST OF PITTSBURG.—The Pittsburg, Fort Wayne & Chicago division of this system is said to have completed the regrading of its line from Rochester to New Brighton, three miles, and to be about to begin the laying of a fourth track from Baden to New Brighton, six miles, and the general improvement of the terminal yards at Conway. The improvements will cost about $70,000. The extension and improvements will be made to facilitate the ore and coal business on the Lake Erie lines, for which the yards act as the terminal. Supt., A. B. Starr, Allegheny, Pa.

PONTOTOC & STARKSVILLE.—We are informed that the survey for this proposed railway will be made as soon as the services of a competent engineer can be secured. The company was recently incorporated in Mississippi, as stated in our issue of July 7, to build a line from Pontotoc to Starksville, via Algona, Houlka, Houston and Sparta, Miss., a distance of 60 miles. Communication on the subject of surveys is solicited by N. W. Bradford, Houston, Miss. Pres., N. B. Crawford, Atlanta, Miss.

STOCKTON & TUOLUMNE.—Surveys for this proposed railway from Stockton to Summerville, via Sonora, Cal., 65 miles, are completed from Stockton to the Stanislaus River, a distance of 45 miles, and it is estimated that the cost of constructing this section of the road will be $8,927 a mile. Surveys are also in progress on the rest of the route, and it is said that Charles Erickson & Son, the contractors, are at work along the line. The company expects to use 60-lb. steel rails on the first 25 or 30 miles, which is to cross the San Joaquin Valley, and 65-lb. rails on the mountain division; 3,000 cross ties will be laid on each mile of main track. Pres., Mrs. Annie Kline Rikert; Ch. Engr., Henry A. Brainerd, with offices at Grand Hotel, San Francisco, Cal.

UNION COVE & VALLEY.—G. E. Howe, Ch. Engr., Union, Ore., informs us that the surveys have been made and grading has been commenced on this steam line from Cove to Union, 12 miles. The work is being done by day labor. Pres., E. P. McDaniel, Cove, Ore.

UNION PACIFIC.—J. B. Berry, Ch. Engr., Omaha, Neb., informs us that no extension to this system are contemplated, and that the only improvements projected include a small number of new sidings and a few trestles.

STREET AND ELECTRIC RAILWAYS.

EAST ROCHESTER, N. H.—Wm. A. Roberts is reported to be interested in the project to build an electric railway from this place to Somerville.

BURLINGTON, VT.—Surveys are now being made for the Burlington & Grand Isle R. R., as far as Malletts Bay. Seneca Haselton may be addressed.

AUBURN, MASS.—The selectmen have granted a franchise to the Worcester & Webster Electric Ry. Co. to build an electric railway through this place, according to report. E. E. Carpenter is a member of the company.

BOSTON, MASS.—The railroad commissioners have approved the plans of the Boston Elevated Ry. Co., according to report.

FRAMINGHAM, MASS.—J. J. Hennesy, Supt., writes us that the Framingham, Southboro & Marlboro St. Ry. is nearly finished and will probably be running by Aug. 1.

PLYMOUTH, MASS.—Bids are asked until July 28 for building the first section of the Plymouth & Sandwich St. Ry., from Hotel Pilgrim to Manomet P. O., and also for the first and second sections, combined, from Hotel Pilgrim to Fresh Pond. Engrs., Harriman Bros., 3 Somerset St., Boston. Address D. E. Damon, Plymouth.

BRISTOL, R. I.—The town council granted a hearing July 7 to the Barrington, Warren & Bristol St. Ry. Co. on its application for a franchise in this place. No decision was rendered. Albert F. Cotter, Pres.

HARTFORD, CONN.—E. S. Goodrich, Pres. of the Hartford St. Ry. Co., was heard by the street board July 13 in regard to plans for the construction of a street railway on Charter Oak and Huyshope Aves., for which the company has asked for a franchise. It was voted to recommend the construction of the road to the council.——The Suburban Electric Ry. has decided to extend its line from Unionville to Collinsville, seven miles, through the Farmington valley. The work will be done by the company, employing day labor.

BUFFALO, N. Y.—The contract for the construction of the proposed Buffalo, Hamburg & Aurora Electric Ry. is about to be let, according to report. U. L. Upson, Secy. and Gen. Mgr.

BUFFALO, N. Y.—The Buffalo, Tonawanda & Niagara Falls Electric R. R. opened for traffic an extension, July 16, beginning at Tonawanda and O'Neil Sts., on northerly limits of the city, thence to Niagara St. and along it about one mile to a ferry on the Niagara River, running to Grand Island. The line will be further extended along Niagara St. to Tonawanda, thus forming another electric line between Niagara Falls and this city. Henry B. Smith, Bay City, Mich., is the principal stockholder.

CLINTON, N. Y.—The New Hartford & Clayville Electric R. R. Co. is reported to have petitioned village trustees for a franchise to build a street railway through this place. The company has also asked the town board of Kirkland for a similar franchise. C. L. Fitchard, Utica, is interested.

HUDSON, N. Y.—It is reported that the Jansen Kill Power Co. has bought the Hudson St. Ry. and will extend it to Claverack and Philmont, building two power houses of a total capacity of 2,600 to 2,800 HP., one of which will be at Bingham's Mills, on Jansen Kill, and the other four miles below. The electricity will also be used for manufacturing purposes in the city.

LOCKPORT, N. Y.—The Buffalo & Lockport Electric Ry. Co., which was reported in our issue of June 16 to have bought the Lock City Electric Ry., has been granted a franchise to build an extension in West Ave. and Transit St. with the privilege of transporting freight between 11 p. m. and 6 a. m. W. Caryl Ely, Pres., Niagara Falls.

LONG ISLAND CITY, N. Y.—It is reported that a mortgage of $1,500,000 has been filed by the New York & North Shore Ry. Co. to enable it to build the proposed line from the present terminus in Middle Village to Flushing, via Richmond Hill and Jamaica. It is also proposed to build an extension from Flushing to Bayside and Manhasset, via Whitestone.

NEW YORK, N. Y.—The Metropolitan St. Ry. Co. has asked permission of the dock board to build a power house on the wharves between 95th and 96th Sts., on the East River, to furnish electric power to its lines of cars run by the underground electric system. C. E. Warren, Secy.; A. C. Tully, Pur. Agt.

NIAGARA FALLS, N. Y.—Geo. P. Smith, North Tonawanda, it is stated, has asked for a franchise for an electric railway in this city. A hearing will be granted him the latter part of this month.——It is also reported that the Niagara Falls St. R. R. Co. has asked for a franchise to build an electric railway line on Niagara St., from the State Reservation. The railroad commissioners approved the construction of the road about a year and a half ago, but nothing has been done. The company has lately been reorganized and the work will now be pushed to completion.

NORTH TONAWANDA, N. Y.—The injunction obtained by the city against the Buffalo & Niagara Falls Electric Ry., restraining it from constructing a turnout and switch on Sweeney St., has been dissolved and the work will be completed at once, connecting the above road with the Erie R. R. W. Caryl Ely, Pres.

ONEONTA, N. Y.—Owen Phillips, Engr., writes us that the Oneonta & Otego Valley R. R. is now completed and will be running from this place to West Oneonta in a few days. There are 7¼ miles of track, including three branches, and an extension to Laurens, 5 miles, has been located.

PEEKSKILL, N. Y.—The highway commissioners of Cortland have granted a franchise to the Peekskill Traction Co. to build an electric railway in that town, according to report.

PENN YAN, N. Y.—The Penn Yan & Savona R. R. Co. has been organized to build an electric railway from this place to Savona, via Keuka. J. D. Nares is the promoter of the road; Geo. F. Andrews, Pres., Owego.

SYRACUSE, N. Y.—The Eastwood R. R. Co. has asked for a franchise to enable it to construct a line of electric railway from this city to East Syracuse, via Eastwood, according to report. R. E. Drake and Clinton S. Carr are attorneys for the company.

WATERTOWN, N. Y.—The Black River Traction Co. has decided to extend its line to Dexter in the fall, according to report. J. A. Lebkuecher, Newark, N. J., Pres.; Geo. H. Walker, Secy.

ELIZABETH, N. J.—The roads committee of the board of freeholders reported July 14 on the plan of widening Westfield Ave., from this city to Plainfield, 12 miles, the cost to be covered by selling a franchise for a trolley line over the entire length to the highest bidder. The work is estimated to cost $300,000 and an additional $50,000 if the avenue is widened through Cranford. Bids for the franchise will be called for in a few days. John Kean is reported to have offered $100,000 for it and the North Jersey Electric St. Ry. Co. is also anxious to secure it.

WESTFIELD, N. J.—The Westfield & Elizabeth Ry. Co. has asked for a franchise through South Ave. A hearing will be granted July 21. A. A. Gaddis represents the company.

DOYLESTOWN, PA.—Thos. P. Chambers, Pres., Newtown, writes us that the Newtown Electric St. Ry. Co., which proposes to extend its line from Newtown to this place, 13¾ miles, via Wightstown, Penn's Park, Wycomb, Forestville and Furlong, as stated in our last issue, has completed surveys, obtained the right of way, secured the necessary capital and will probably let the contract within a week.

ERIE, PA.—The Erie Electric Motor Co. informs us that it does not contemplate making any extensions at present.

READING, PA.—A. J. Eberly, Philadelphia, has the contract to construct the electric railway from Boyertown to Stony Creek, near this city, via Pleasantville, for the United Traction Co.

BALTIMORE, MD.—The Security & Trading Co. has purchased all the property of the Columbia & Maryland Ry. Co. for $450,000, and has sold the Baltimore end to the Baltimore Consolidated Ry. Co. for $250,000. The last named company will complete the line to Ellicott City. The Washington end of the Columbia & Maryland has been absorbed by the City & Suburban Co., Washington, D. C., the officers of which are: O. T. Crosby, Pres.; Dana Stevens, Secy.; S. C. Cooper, Treas.

MARTIN'S FERRY, W. VA.—The Martin's Ferry council has granted a franchise to the Wheeling St. Ry. Co. to build an extension from its present terminus to the north end of town.

ATHENS, GA.—The Athens Electric St. Ry. Co. will extend its line to Mitchell's bridge in the fall. W. S. Holman, Pres.

DAYTON, O.—The Dayton & Germantown Traction Co. has been incorporated with $10,000 capital to build an electric railway in this city. The incorporators are: Fred. Shoop, Isaac J. Bassatt, Noah Coler, T. P. Meredith and Theo. C. Lindsey.——The city council has granted a franchise to the Dayton, Spring Valley & Wilmington Traction Co. to build an electric railway in this city, according to report.

SANDUSKY, O.—The Sandusky Electric St. Ry. was sold July 9 to Henry Everett, E. W. Moore and Barney Mahler, of Cleveland, and W. H. Price and Chas. H. Stewart, of Norwalk, for $60,024.

MASON, MICH.—A mass meeting was held in this place July 11 in the interests of the Lansing, Dexter & Ann Arbor Electric R. R., the promoters of the road having asked for $7,000 bonus from this town, which will probably be raised.

CHESTER, ILL.—A company is being organized, according to report, to build an electric railway from Belleville to this place, via Smithton, Hecker, Red Bud, Ruma, Evansville and Ellis Grove.

EAST ST. LOUIS, ILL.—The East St. Louis & Collinsville Electric R. R. Co. has been incorporated with $2,500 capital, by Wm. Origrier, T. T. Ramey and W. E. Hadley.

ROCKFORD, ILL.—The City Ry. Co. and the Rockford Traction Co. have consolidated under the name of the Rockford Ry. Light & Power Co. R. N. Baylies, Pres.

EAU CLAIRE, WIS.—E. J. Matchett, Osseo, is reported to have been awarded the contract to construct 30,000 yds. of track for the Chippewa Valley Electric Ry.

KENOSHA, WIS.—The Milwaukee, Racine & Kenosha Electric R. R. Co. has applied for a franchise to build a street railway in this city, according to report.

RACINE, WIS.—The Wisconsin Inland Lakes & Chicago Ry. Co., which was recently organized with $10,000,000 capital, to build an electric railway connecting all of the Wisconsin inland lakes, July 6 filed a trust deed for that amount on the 500 miles of track to be built between Chicago and Watertown, including branch lines to Milwaukee, Wilmette, Madison, Elgin and Desplaines. Construction will be begun as soon as a franchise is secured in this city. Alfred E. Case, Actg. Pres.

WALWORTH, WIS.—The town board has granted an extension of its franchise to the Harvard & Geneva Lake Electric Ry., according to report. H. T. Windsor, Colburn's Hotel, Fontana, may be addressed.

MINNEAPOLIS, MINN.—The board of trade of this city at its meeting July 5 passed a resolution advising the building of an electric railway between Minnehaha and Fort Snelling.

KANSAS CITY, MO.—The Brooklyn Ave. St. Ry. Co. has been granted a franchise to build its proposed line on Grand Ave., from 33d St. to 13th St., as noted in our issue of July 7.——L. E. Myers, Chicago, has been awarded the contract for the construction of the Broadway line of the Metropolitan St. Ry. A. H. Holmes, Gen. Mgr.; E. Butts, Engr.

PASADENA, CAL.—The Los Angeles Terminal Ry. Co. has been granted a franchise to build an electric railway in this city. Bids are asked until Aug. 15 for the purchase of this franchise.

SAN FRANCISCO, CAL.—The board of supervisors has granted three street railway franchises to the Market St. Ry. Co. for lines on Army St., San Bruno and Precita Aves.; Stanyan and Frederick Sts. and Parnassus and Fifth Aves.; Bosworth and Berkshire Sts.——A franchise has also been granted to the San Francisco & San Mateo R. R. Co. to construct an electric line on Howard St. and East St. to the Union Ferries Depot.

ELECTRIC LIGHT AND POWER.

NORTH GORHAM, ME.—Press reports state that the Cumberland Illuminating Co., Deering, Me., will soon build a power plant on the Presumpscot River. It is stated that the power house, to be 36 × 46 ft., is now being built. Geo. W. Brown, Mgr. Deering Electric Lighting Co., is interested.

OLDTOWN, ME.—The Bodwell Water Power Co., Pres., Chas. V. Lord, Bangor, Me., has engaged Lockwood Greene & Co., Hydraulic Engrs., Boston, Mass., to prepare plans, etc., for the proposed power plant on the Penobscot River, near this place. Treas. and Clk., A. H. Brown.

WESTBROOK, ME.—The question of building a municipal plant in this place is being considered by the council. Councilman I. A. Burgess may be addressed.

SOMERSWORTH, N. H.—Geo. F. West, Portland, Me., has submitted estimates for a municipal plant to cost $14,504. The plant will have 100 1,200-c. p. arc lights.

BRATTLEBORO, VT.—Efforts are again being made for the construction of a dam and power plant on West River, to cost about $50,000.

NEWPORT, R. I.—The council is considering two resolutions authorizing the committee to ask for bids for lighting the streets with 110 2,000-c. p. arc lights for three, five or ten years, or for constructing a municipal plant of 300 arc lights capacity.

CLINTON, N. Y.—T. T. Thompson, Pres. Village, writes us that this town has given up the idea for the present of lighting the streets with electricity.

GREENSBURG, PA.—A. M. Crawford, Burgess, writes us that no steps have yet been taken for the erection of a plant in South Greensburg.

PHILADELPHIA, PA.—Stacey, Reeves & Son, 1611 Filbert St., are securing estimates for a 1-story power-house to be erected at 19th St. and Allegheny Ave., for the Electric Storage Battery Co. It will be 35 ft. square, brick and iron construction.

RIDLEY PARK, PA.—It is reported that the council is considering the question of asking for bids for lighting the streets of this borough. It is possible, however, that a contract, without advertising, will be made with the Beacon Light Co.

WEST CONSHOHOCKEN, PA.—The Conshohocken Electric Co. submitted the lowest bid July 6 for lighting this place with electricity for five years. The only other bid was that of Dr. Lefferts, representing a syndicate.

OAKLAND, MD.—R. S. Jamison, Mayor, writes us that the council as yet has not taken action in regard to a plant and water-works.

WASHINGTON, D. C.—Bids are asked by the district commissioners until July 23 for furnishing 300 lamp posts.

SUFFOLK, VA.—John B. Norfleet, Chn. Com., writes us that the council has made a contract with the old electric company for lighting this city for three years.

WINCHESTER, VA.—Wm. R. Willis, Councilman, writes us that the council is considering the question of a municipal plant, to be operated in connection with the pumping station owned by the city. There are two Corliss engines at the pumping station suitable for the purpose. While the town recently voted by a large majority for the plant the council majority does not favor the plant. The plant is planned to have a capacity for 70 2,000-c. p. arc lights.

SPARTANBURG, S. C.—We are informed that a company has secured the contract to light this place for a term of years. The necessary power will be obtained by developing the water power near here. William Whitner and Frank Whitner, Anderson, S. C., are interested.

ARCADIA, FLA.—The clerk writes us that steps have not yet been taken in regard to erecting a plant.

JACKSONVILLE, FLA.—C. O. Patterson, Supt. Electric Light Plant, has made plans and estimates for extending the light wires through Springfield, Campbells Addition, La Villa, etc. In La Villa alone it is proposed to construct three circuits of 60 arc lights and nine miles of wire each.

CULLMAN, ALA.—Jas. E. Clark, owner of the franchise of the Cullman Water & Lighting Co., writes us that the company is being organized. Bids for furnishing and constructing the plant will be asked about Sept. 1. The plant will have a capacity for 21 1,200 to 2,000-c. p. arc and 1,000 16-c. p. incandescent lights; estimated cost, $15,000.

HENDERSON, KY.—R. P. Farnsworth writes us that the council lacks one vote of a majority in favor of the proposed plant.

AKRON, O.—The council has voted to award a contract for lighting the city to the Akron St. Ry. & Illuminating Co. The question will have to be voted upon by the city commissioners.

FOSTORIA, O.—Press reports state that the directors of the Fostoria Light & Power Co. are considering an offer for the purchase of the plant by a Philadelphia company, represented by S. R. Bullock, of that city.

McARTHUR, O.—J. W. Darby, W. J. Kennard and Paris Horton are on the committee to build the proposed plant.

MINSTER, O.—Bids are asked until Aug. 16 for furnishing the materials and for constructing a plant. There will be required an 80-HP. engine, two 54-in. × 14-ft. boilers, a feed pump, three 40 K-W. dynamos, etc. Consult. Engr., G. A. McKibben, Van Wert, O.; Clk., August Schunck.

INDIANAPOLIS, IND.—Bids are asked by the board of trustees of the Indiana Institution for the Education of the Blind until Aug. 2 for furnishing and constructing a plant.

DECATUR, MICH.—Geo. S. Pierson, Kalamazoo, Mich., is preparing plans for a plant for this place, for which $16,000 in bonds was voted recently.

FENTON, MICH.—Rev. F. S. Thompson is reported to have purchased the plant in this city for $9,000.

GRAND RAPIDS, MICH.—The council has sustained Mayor Perry's veto of the contract for the electric light plant. The board of public works was instructed July 11 to prepare new specifications and readvertise for bids.

YALE, MICH.—Bids are asked until Aug. 2 for furnishing and constructing a plant, as advertised in Engineering News July 7. (Postponement from July 26.) E. F. Fead, Village Clk.

BRACEVILLE, ILL.—This place has voted to build a plant, according to reports.

RIDGEFARM, ILL.—The board is reported as considering the question of building a plant. C. M. Harrold, Clk.

ROCKFORD, ILL.—The Rockford Ry., Light & Power Co., recently reorganized by the consolidation of the two companies, has applied for an extension of the franchises, according to reports.

MILWAUKEE, WIS.—Bids were received July 18 by H. J. Esser, Arch., 902 Pabst Bldg., for constructing a power station in this city to be 100 × 130 ft.

SUPERIOR, WIS.—The council has let a contract for furnishing 150 2,000-c. p. arc lights to the Superior Water, Light & Power Co.

GAYLORD, MINN.—Bids are asked until July 28 for furnishing and constructing a plant, as stated in our advertising columns. C. W. Clasen, Village Recdr.

MITCHELL, S. DAK.—F. C. Duffy, Ripon, Wis., owner of the plant in this city, has submitted a proposition to either lease or sell the plant to the city.

KANSAS CITY, KAN.—Local papers state that Lemuel Crosby has secured the contract for building the new electric light plant for the Consolidated Electric Light & Power Co., on the west of the Kaw River bridge. This plant is designed to furnish electric light and power for Kansas City. The building alone will cost about $25,000, and some $50,000 more will be required for the engines, dynamos, etc. There will be 15 dynamos of an aggregate of about 1,000 HP. The smokestack will be 150 ft. high and 8 ft. inside diameter. The building will be 100 × 140 ft., two stories high.

BATESVILLE, ARK.—Owen Ford, Consult. Engr., Security Bldg., St. Louis, Mo., writes us that the contracts for furnishing and building a plant and water-works has been let to G. Jaeger, Rich Hill, Mo., at $24,720.

PARIS, TEX.—We are informed that the Paris Light & Power Co., recently incorporated, is a consolidation of two companies.

REDLANDS, CAL.—The stockholders of the Redlands Electric Light & Power Co., 14 West State St., will meet July 21 to consider the question of increasing the capital stock from $200,000 to $500,000 for making improvements, etc., to the plant. Secy., Fulton G. Ferand.

SAN FRANCISCO, CAL.—The supervisors have received bids for lighting the city with electricity by districts for a term of two years from Aug. 1. John A. Russell, Clk.

IDAHO FALLS, IDAHO.—An election will be held Aug. 9 to vote on the question of issuing $25,000 in bonds for the purchase of the plant and water-works, according to reports.

BUENOS AYRES, ARGENTINE REPUBLIC.—Press reports state that a German electric light and traction company has been formed in Buenos Ayres, with a capital of $5,000,000. It has acquired some electrical railway privileges in the capital, and is to construct a central station which will cost about $800,000. Gaster Fredersking is the principal party interested in this undertaking.

NEW COMPANIES.—Tuxedo Park Water & Electric Light Co., Towson, Baltimore, Md.; to furnish water and electric light to the residents of Tuxedo Park; G. O. Wilson, H. O. Leonard, John Neubaker, Fred E. Wilson, William F. Smith.

Cleveland Electric Co., Cleveland, O.; $4,400; W. P. Bowman, F. C. McMillan, James E. Matthews, F. W. Post, W. C. Stevens, Cleveland.

Vigo Light & Power Co., Terre Haute, Ind.; $50,000; W. R. McKeen, Herman Hulman, James A. J. Crawford, J. A. Crawford.

Western Electric Co., Chicago, Ill., and Detroit, Mich.; $1,000,000.

Kearney Power & Irrigation Co., Kearney, Neb., and 145 South 11th St., Lincoln, Neb.; $230,000; W. A. Lindley, J. P. Hibard, Theo. Tychsen.

Newman-Spranley Co., Ltd., New Orleans, La.; $30,000; to conduct a general electrical business; J. K. Newman, Isidore Newman, Edgar Newman, C. H. C. Brown and William T. Spranley.

Standard Electro Vapor Motor Co., New York, N. Y.; $50,000; S. W. Warner, B. L. Warner and W. M. Warner, Yonkers.

Manhattan Illuminating Co., New York, N. Y.; $100,000; to manufacture devices for use with gas, hydrocarbon oils or other fluid combustibles for lighting purposes; De Witt H. Palmer, Brooklyn; William Walters and Chas. R. Lindsay, Jr., New York.

BRIDGES.

HARTFORD, CONN.—The city attorney has been instructed to procure an order for the construction of a bridge over the railroad tracks at Broad St.

HERKIMER, N. Y.—The town has voted to appropriate $13,500 for constructing the proposed bridge across West Canada Creek.

WHITE PLAINS, N. Y.—The county supervisors have voted to issue bonds for the construction of bridges over Rowley Brook and Hastings Ravine on the Warburton Ave. extension.

PITTSBURG, PA.—Reports state that a contract has been awarded to the Pittsburg Ornamental Works for constructing 29 arches to cost about $6,820, to decorate the thoroughfares for the Knights Templars triennial conclave.

ANNAPOLIS, MD.—Bids are asked until July 26 for converting the Severn River rolling draw bridge into a pivot draw, and for constructing two pile bridges. A. K. Starlings, County Clerk. Address the Engineer, 15 East Lexington St., Baltimore.

BALTIMORE, MD. — The county commissioners have awarded a contract to the Wrought Iron Bridge Co., Canton, O., at $2,397, for constructing a bridge 119 ft. long and 16 ft. wide, over Big Gunpowder River, near Parkton.

LEXINGTON, KY.—Alex. Pearson, J. V. Nichols and others, have petitioned the fiscal court for an appropriation of $2,600 to erect a viaduct on the Maysville and Lexington turnpike.

BATAVIA, O.—Bids are asked until Aug. 10 for constructing a 160-ft. bridge over the east fork of Little Miami River. John W. Davis, County Audr.

CINCINNATI, O.—Bids are asked until Aug. 10 for constructing an iron truss bridge over the Miami Canal, on Township Ave. E. L. Lewis, County Audr.

CLEVELAND, O.—Bids are asked until Aug. 17 for furnishing the material and for constructing the substructures for a bridge over the Cuyahoga River, near the South Park Station, and for a bridge over the Ohio Canal, on the Howard Road, in Newburg township. J. C. Dorn, Clk. Bd. County Comrs.

MASSILLON, O.—The Massillon Bridge Co. has been awarded a contract to construct a foot bridge 600 ft. long over the river and canal; estimated cost, $2,000.

NEW PHILADELPHIA, O.—Bids are asked until July 28 for constructing an iron bridge over the Tuscarawas River, according to reports. E. C. Browne, County Audr.

SIDNEY, O.—Bids are asked until Aug. 3 for constructing a hoist bridge at Water St., according to reports. J. S. Laughlin, County Audr.

SAGINAW, MICH.—Reports state that the street railway company has made a proposition to the council to construct a bridge for its own use at Johnson St., to cost about $40,000.

CHICAGO, ILL.—Bids are asked until Aug. 3 for furnishing the material and constructing 11 superstructures over the main drainage channel, as advertised in Engineering News June 2. (Postponement from July 20.)

CHICAGO, ILL.—Bids are asked until July 29 for removing and reconstructing the 61st St. viaduct, between Clark and State Sts. L. E. M'Gann, Comr. Pub. Wks.

AITKEN, MINN.—Bids are asked until July 23 for constructing a bridge across Ripple River at Knox St. F. M. Shook, Pres.

DES MOINES, IA.—A petition has been presented to the council for the construction of a bridge over the Des Moines River at East Sixth St.

TOLEDO, IA.—Bids are asked until July 28 for constructing a steel bridge with a span of 168 ft., on caisson foundation, two miles west of Chelsea. C. H. Miller, County Audr., Toledo.

WAVERLY, IA.—Bids are asked by the county supervisors for constructing the superstructure of a bridge 38 ft. wide across the Cedar River, to cost about $15,000.

CENTRALIA, WASH.—Bids are asked until Aug. 1 for constructing a bridge with a span of 260, 270 or 280 ft. over the Chehalis River. Allen P. Schooley, County Audr., Chehalis.

CHEHALIS, WASH.—Bids are asked until Aug. 1 for constructing bridges of 160, 75 and 80 ft. long; also for repairing the jetty at the Toledo bridge. Allen P. Schooley, County Audr.

CLAQUATO, WASH.—Bids are asked until Aug. 1 for the construction of a 200-ft. span bridge over the Chehalis River. Allen P. Schooley, County Audr., Chehalis.

OLYMPIA, WASH.—Bids are asked until Aug. 6 for constructing a crib around the south piers of the Rochester and Grand Mound bridges. R. A. Graham, County Audr.

SPOKANE, WASH.—A contract was awarded to the Gillette-Herzog Mfg. Co., Minneapolis, Minn., at $8,197, on July 5, for constructing a trestle 500 ft. long to carry the water mains over the Spokane River. B. H. Fowle, Secy.

HILLSBORO, ORE.—The county commissioners will replace the bridge over Dairy Creek with a 46-ft. span truss bridge.

BLOOMFIELD, CAL.—Bids are asked by the county clerk at Santa Rosa until Aug. 2 for constructing a bridge on the Monterey Road.

LODI, CAL.—Bids are asked until Aug. 2 for constructing a steel and iron bridge across the Mokelume River, near this place. G. A. Atherton, County Engr.; Otto Grunsky, Clk., Stockton.

SANTA ROSA, CAL.—J. A. McMahon, San Francisco, has been awarded a contract by the county supervisors for constructing a bridge across Russian River, at $3,895, and for a new span for the Alexander bridge, at $4,465.

ST. HERMENEGILDE, QUE.—Bids are asked until July 30 for constructing a bridge across Kinney Brook, according to reports. Address J. D. Dupont.

QUEBEC, ONT.—Engineer Hoare, of the Quebec Bridge Co., has made a report on the proposed bridge construction for this year, involving a cost of about $500,000. Bids will probably be asked by Sept. 1, according to reports.

SUMMERVILLE, ONT.—Bids are asked until July 22 for constructing a concrete or stone abutment for a bridge over the Etobicoke River, on Dundas St. J. McDougall, County Engr., Toronto.

BUILDINGS

FRAMINGHAM, MASS.—This town has voted to borrow $35,000, to be used for school purposes.

NORTHAMPTON, MASS.—Reports state that the trustees of Smith College have accepted plans by York & Sawyer, Archs., New York, for the erection of Seelye Hall, to cost $50,000.

NEWPORT, R. I.—Bids are asked until July 26 for the erection of a naval station. W. K. Van Reypen, Surgeon-Gen., U. S. N., Navy Dept.

NEW HAVEN, CONN.—Bids are asked until Aug. 1 for metal work for the New Haven Harbor breakwater light, as stated in our advertising columns. Lt.-Col. D. P. Heap, U. S. Engrs., Tompkinsville (S. I.), N. Y.

BUFFALO, N. Y.—Bids are asked by the department of public works until July 29 for the erection of a two-story, 8-room brick addition to School No. 28, at Abbott Road and Triangle St. Secy., R. G. Parsons.

NEW YORK, N. Y.—The contract for the iron work on the new 10-story business building, 28 × 175 ft., to be erected at Broadway and Walker St., has been awarded to J. B. & J. M. Cornell, 26th St. and 11th Ave. Archs., Wm. H. Birkmire, 320 Broadway.——Plans are being prepared, according to reports, for three 5-story flat buildings to be erected on 101st St., near Park Ave., for Nathan Goldstein, 144 Monroe St. and Simon Preusky, 1921 2d Ave., at a cost of $60,000. Arch., S. D. Cohen, 209 Broadway.——Robinson & Wallace, 123 East 23d St., are said to have been awarded the contract for the erection of new buildings for the New York Hospital, 15th and 16th Sts., near 5th Ave., to cost about $500,000. Archs., Cady, Berg & See, 31 East 17th St.——Plans have been filed by Robert Kelly, 274 East 74th St., for six 3-story brick dwellings, on Hamilton Terrace, near 141st St., to cost $78,000. Arch., William Strom, 44 Broad St.; by Bridget Cooney, 220 9th St., for four 5-story brick tenement buildings on 63d St., near West End Ave., to cost $72,000. Arch., S. Sass, 23 Park Row; Frederick Klingman, 132 East 44th St., for a 7-story brick apartment house at 107th St. and West End Ave., cost $70,000. G. F. Pelham, Arch.; Joseph Polstein and Wm. Feinberg for a 6-story brick flat, Nos. 242 to 246 Madison St., to cost $54,000. Michael Bernstein, Arch.

NEW YORK, N. Y.—John F. O'Rourke, 44 Broadway, has been awarded a contract for furnishing eight pneumatic caissons for the foundation of the new residence to be erected by Mrs. M. L. V. Shepard, Scarsboro, N. Y., at Nos. 11 and 13 East 62d St., to cost $75,000. Archs., Haydell & Shepard, 156 5th Ave.——Plans have been filed by James A. Timpson, 130 St. Ann's Ave., for a 5-story brick flat, on Melrose Ave., near 157th St., to cost $12,000. W. C. Dickerson, Arch.

NEWARK, N. J.—Bids are asked until July 22 for plumbing, heating, ventilating and electric wiring, in the county court house. C. W. Hellman, Chn. Com., Bd. Freeholders.

PATERSON, N. J.—Official notice is given that the True Reformed Dutch of Acquackanonk intends to erect a new church building adjoining its present structure.

PHILADELPHIA, PA.—Doyle & Doak, 133 South 15th St., Philadelphia, have been awarded a contract at $175,000 for constructing the buildings of the Jefferson Medical College. Arch., J. H. Windrim.

PHILADELPHIA, PA.—Robert A. Pitts, Arch. and Builder, 223 South 3d St., has been awarded a contract to construct 93 3-story brick and stone dwellings on Hazel Ave. and 48th and 49th Sts., to cost $300,000.

PHILADELPHIA, PA.—Bids are asked by Supt. J. H. Vail, of the Pennsylvania Light & Power Co., 10th and Sansom Sts., for alterations and additions to station 5, Callowhill St. James H. Windrim, Arch.

YORK, PA.—Bids are asked until Aug. 4 for alterations and additions to the county court house. Arch., J. A. Dempwolf, York.

ANNAPOLIS, MD.—A contract was awarded to Taylor & Chance, Annapolis, at $12,671, on July 6, for erecting a library and laboratory for St. James' College.

BALTIMORE, MD.—The Consolidated Ry. Co. has awarded a contract to John Hiltz for the construction of a new car house, to cost about $70,000, according to reports. Baldwin & Pennington, Archs.——Lerch Bros. propose to erect a 7-story stone and iron warehouse, to cost about $60,000, according to reports.

LAUREL, MD.—Bids are asked until July 25 for constructing a 2-story brick school building to cost $10,000. R. W. Kerr, Secy. Com.; Albert Mason, Arch., Baltimore.

WASHINGTON, D. C.—Plans have been filed by R. H. Darby for a fireproof printing establishment at 14th St., near Pennsylvania Ave. T. F. Schneider, Arch.; R. N. Harper, for a fire-proof manufacturing building on C St., near 6th St.; Navy department, for a steel storage building at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks.

AKRON, O.—The following bids were received July 15 by the supervising architect, Washington, for the construction (except heating apparatus and electric wire conduits) of the post office building:

Michael Robett, Toledo, O.	$65,342	10 mos.
D. W. Thomas, Baltimore, Md.	51,875	8 "
Bennett & Rothrock, Williamsport, Pa.	61,503	10 "
Henry Shenk, Erie, Pa.	57,924	10 "
P. J. Carlin & Co., Brooklyn, N. Y.	62,000	10 "
Sam. C. Moore & Son, Kokomo, Ind.	48,892	10 "
Louis D. Beman, Cincinnati, O.	59,976	10 "
L. L. Leach & Son, Chicago, Ill.	54,797	10 "
Chas. Gindele Co., Chicago, Ill.	50,500	10 "
Bailey, Koerner & Co., Louisville, Ky	56,544	10 "
J. A. Reaugh & Son, Cleveland, O.	48,600	7 "
Miles & Bradt, Atlanta, Ga.	45,400	10 "
J. W. Myers & Co., Ashland, O.	43,819	9 "
Bennett, Michie & Co., Milwaukee, Wis.	47,490	11 "
McIlvain, Unkefer & Co., Pittsburg, Pa.	45,300	9 "

PORT CLINTON, O.—The county has voted to issue $40,000 of court house bonds.

CENTRALIA, ILL.—Bids are asked until Aug. 2 for the erection of a city hall and jail, according to reports. J. J. Bundy, City Atty.

CHICAGO, ILL.—Egan & Prindville, Archs., have completed plans for a convent to be erected between 49th and 50th Sts., and Evans and Liberty Aves., to cost $250,000. ——A permit has been granted for the erection of a $100,000 school building at 69th St. and Stewart Ave.——S. R. McCormick will construct three 6-story fireproof buildings on Michigan Ave., between Madison and Monroe Sts.——Mrs. Augusta Heberlein will erect an apartment building at 359 and 361 East Indiana St., at a cost of $40,000. Robt. S. Smith, Arch., Adams Express Building.

CHARLESTON, ILL.—The county supervisors have passed a resolution to build a new court house, at a cost of about $100,000.

DUNNING, ILL.—Bids are asked until July 25 for furnishing material and plans and installing a dry air system at the Dunning Institution. E. D. Northam, Supt. Pub. Service, Chicago.

STREATOR, ILL.—Plans are being prepared by Geo. P. Standuhar, Arch., Rock Island, for a 4-story office and club building, 146 ft. × 260 ft., for D. Heenan & Co., Streator; estimated cost, $130,000.

OSHKOSH, WIS.—Reports state that bids will soon be asked by the library commission for furnishing plans for a $40,000 library building. H. L. Battis, Chn.

RACINE, WIS.—The building belonging to the Racine Malleable & Wrought Iron Co. has been destroyed by fire, at a reported loss of $100,000.

MINNEAPOLIS, MINN.—Plans have been completed by E. P. Overmire, Arch., 1043 Lumber Exchange, for a 3-story apartment house, costing $50,000.

RUSH CITY, MINN.—F. C. Norlander, 1025 Bradley St., St. Paul, has been awarded a contract at $10,747 for constructing a school building. Archs., Omeyer & Thori, St. Paul.

CORNING, IA.—The mayor has appointed a committee to investigate the cost, etc., of constructing a new city hall.

DES MOINES, IA.—Bids are asked until Aug. 12 for constructing the west wing of the Iowa State Memorial Historical & Art Building, to cost $50,000, according to reports. Archs., Smith & Gutterson.

WATERLOO, IA.—Bids are asked until Aug. 2 for constructing a 3-story brick Y. M. C. A. Hall in this city. Archs., Murphy & Ralston; Chn. Com., A. N. Ferris.

BUTTE, MONT.—The school trustees received the following bids July 1 for constructing a school building: John F. Hogan, building complete, except plumbing and heating plant, $27,745; J. A. Riddell, complete, except heating plant, $28,337; Loss & Co., complete, $28,984; Laurence Burke, complete, $29,574, or stone and brick work only, $10,833; Thos. Laurier, complete, $29,545; C. C. Goddard & Co., complete, except heating plant, $34,743; Moses Benoit, complete, $28,673; Strunk & Malette, stone foundation, cut stone and brick work, $12,550; J. Kruger, plumbing, $522; gas fitting, $235; steam heating, $3,550; Wm. C. Bryant, heating and ventilating, $3,850; Canney & Wright, plumbing and gas fitting, $620; Montana Hardwall Plastering Co., plastering, $1,757; Anaconda Mining Co., hardware department, steam heating $3,218; Echle Plumbing & Heating Co., steam heating, $3,883.

HELENA, MONT.—Press reports state as follows: The Supreme Court on July 5 declared valid the contract between Bell & Kent, formerly of Counicl Bluffs, Ia., but now of Helena, and the capitol building commission. Montana law requires capitol architects to be citizens of the state. Bell & Kent established their residence March 18, and the contract was let to them the following day. Action, it is said, was brought to break the contract by Butte architects. The decision will permit work on the $350,000 capitol to be commenced next fall.

LAWRENCE, KAN.—Bids are asked until July 25 for constructing a club-house for the Merchants' Athletic Building Association. F. W. Barteledes, Chn. Com.

KANSAS CITY, MO.—Root & Siemans have prepared plans for a warehouse, 42 × 120 ft., for the U. S. Water & Steam Supply Co.; estimated cost, $18,000. Gen. Mgr., H. S. Ferguson, 1211 W. 12th St.

ST. JOSEPH, MO.—P. P. Buddy, St. Joseph, has been awarded the contract for building a $100,000 live stock building at the St. Joseph Stockyards. The building will be of brick and four stories high. Work will begin at once, and will be completed Dec. 1.

HOUSTON, TEX.—The council has passed an ordinance to issue $60,000 in bonds for erecting school buildings.

YOAKUM, TEX.—The San Antonio & Arkansas Pass Ry. Co. will soon begin the construction of a new storage house to be 40 × 150 ft.

OAKLAND, CAL.—Plans for the proposed school of manual training were filed July 5 with board of education. They call for a building to cost $17,000. Nothing will be done in regard to the school at present on account of lack of funds.

SAN RAFAEL, CAL.—Competitive plans and specifications will be received by the high school board for erection of a high school building in San Rafael; building to cost not over $11,000. Thos. Hansen, Secy.

PETERSON, UTAH.—Bids are asked until Aug. 8 for erecting a 3-room brick school building at this place. Arch., R. C. Watkins, Provo and Ogden, Utah; Chn. Trustees, Martin Gaarder.

RICHFIELD, UTAH.—Bids are asked until Aug. 1 for erecting a county jail building. Arch., R. C. Watkins, Provo; S. F. Clark, Clk.

SALT LAKE CITY, UTAH.—It is stated that the contract for erecting an 8-room school building has been let to the Salt Lake Bldg. & Mfg. Co. at $15,536.

WATER-WORKS.

HAMPTON, N. H.—C. M. Lamprey, Clk. Hampton Water-Works Co., writes us that the directors will submit the question of building works to the town. The works will be built in another year by the town or by capitalists. The delay is caused by the difference of opinion as to who shall build the works, private parties or the town.

BOSTON, MASS.—Bids are asked until July 21 for laying 4,925 ft. of 16 and 450 ft. of 12-in. cast-iron water pipe in Watertown and Belmont. Wm. N. Davenport, Secy. Metropolitan Water Bd., 3 Mount Vernon St.

HOLDEN, MASS.—Chas. E. Parker writes us that the town has not yet voted to secure a water supply from Lake Murchepange, but a gain in the number of votes for it has been made at each trial. A special town meeting will probably be called soon when it is likely another vote will be taken.

TAUNTON, MASS.—The water commissioners are reported as considering the question of making improvements to the works and of adding a new 8,000,000-gallon engine; estimated cost, $60,000. Supt., Geo. F. Chace.

ALBANY, N. Y.—Bids are asked until Aug. 2 for furnishing and installing a pumping station and intake for the filtration plant, as stated in our advertising columns. Ch. Engr., Allen Hazen, St. Paul Bldg., New York; Supt., Geo. I. Bailey.

CATTARAUGUS, N. Y.—Bids are asked until Aug. 4 for furnishing three-fourths of a mile of 4-in. pipe. Frank S. Oakes, Village Pres., writes us that $7,000 4% 20-year bonds are to be issued for extending the works for a distance of four miles for an increased water supply. Only about three-fourths of a mile of new 4-in. pipe will be required. Engr., W. J. White, Buffalo.

FORESTVILLE, N. Y.—The Forestville Water Co. has been incorporated with a capital stock of $10,000 by Howard M. Fordham, Buffalo, N. Y., and Albert Herrig and Richard J. Monahan, Forestville. There is a small plant here that is owned by the town.

JAMESTOWN, N. Y.—C. B. Jones, Cy. Clk., writes us that no steps have yet been taken toward securing new works.

MAYVILLE, N. Y.—This place voted July 2 to extend the works, according to reports. E. Delavan Smalley, Engr., Syracuse, N. Y., may give information.

NEW YORK, N. Y.—Bids are asked by the department of water supply, 150 Nassau St., until July 28, for furnishing and laying water mains in Fordham Road across the Harlem River ship canal and in 109th St., etc.

NORWOOD, N. Y.—Watson B. Berry, Pres. Norwood Water Co., Massena, N. Y., writes us that bids will be asked about Sept. 1 for furnishing and constructing five miles of cast-iron water pipe, hydrants, standpipe, etc., for the proposed works. A filtration plant will also be put in. The source of supply will be the Racquette River.

NYACK, N. Y.—Jas. S. Haring, Engr., writes us that the private works known as the Onderdonk Water-Works, owned by Mrs. Rachel C. Odell, is only a small plant, having 1¼ and 1½-in. pipe and some 3 and 4-in. cast-iron pipe. It is a gravity plant from springs at an elevation of 175 ft. The town will vote on the question of issuing $15,000 in bonds for the purchase of the same.

TONAWANDA, N. Y.—Bids are asked until July 25 for taking up and relaying the 12-in. water main across the Niagara River, etc. J. H. Vickers, Clk.

WHITE PLAINS, N. Y.—Bids are asked until July 25 for the purchase of $130,000 of 4% water bonds. Howard E. Foster, Treas.

CAMDEN, N. J.—Bids are asked by the water committee until July 26 for furnishing water meters to be placed in factories, mills and the railway yards.

FREEPORT, PA.—The South Buffalo Water Co. has been incorporated to supply water in South Buffalo township, Armstrong county; capital stock, $5,000; incorporators, Frank Maxler, Treas.; D. S. Wallace, J. B. Patterson, J. E. Williams, J. T. McCulloch and John A. Singer, Freeport.

OIL CITY, PA.—The following bids were received June 15 for furnishing a pump and four 50-HP. gas engines, as advertised in Engineering News; all the bids have been rejected; A. M. Breckinridge, Clk.:

Gas Engines:

Western Gas Const'n Co., Fort Wayne, Ind....	$8,350
Otto Gas Engine Works, Philadelphia, Pa.	6,400
Joseph Reid, Oil City, Pa.	2,500
National Meter Co., 86 Chambers St., New York..	8,955
St. Mary's Machine Co., St. Mary's O.....	3,200
White & Middleton Gas Eng. Co., Baltimore, Md.	7,500
Roth Gas Engine Co., Indianapolis, Ind.....	5,2 0
Loretz Bros., New York	9,500
Erie Gas Engine Co., Erie, Pa.....	4,400

Pumps: Oil City Boiler Works, Oil City, Pa.—$20,737 for one 300,000-gallon and two 1,500,000-gallon Gould Power Pumps, or $27,302 for same capacity as above with Snow Power Pumps; Snow Steam Pump Works, Buffalo, N. Y.—$28,610 for vertical triple expansion pumping engine, or $28,390 for vertical cross-compound pumping engine; Nordberg Mfg. Co., Milwaukee, Wis., $30,750 for vertical cross-compound pumping engine; Loretz & Son, 126 Liberty St., New York—$21,000 for vertical triple expansion pumping engine, or $16,000 for three power pumps as above.

LATROBE, PA.—The Latrobe Water Co. has let the contracts as follows for its proposed works: Pumping engines, Henry R. Worthington, New York; boilers, the Erie City Boiler Works, Erie, Pa.; pipe laying, H. F. Stark, Greensburg, Pa. The contracts for building the pumping station and reservoir will be let later. The pumps will have a capacity of 3,000,000 gallons. There will be three miles of 6 to 16-in. pipe and a reservoir of 9,000,000 gallons capacity. Engrs., Wilkins & Davison, Westinghouse Bldg., Pittsburg.

NAZARETH, PA.—Surveys have again been made for the proposed increased water supply for the works of the Nazareth Water Co. John W. Trumbower and C. Edward Michael may be addressed. Frank Kunkel, Borough Surv.

PHILADELPHIA, PA.—Bids are asked until July 26 for building and for furnishing boilers and 48-in. cast-iron water pipe. T. M. Thompson, Dir. Dept. Pub. Wks.—Plans are reported as being prepared for a reservoir on Georges Hill for an increased water supply for West Philadelphia; estimated cost, $500,000.

WARREN, PA.—Wm. O'Neil, Chn. Com., writes us that this city voted July 12 to issue $50,000 in bonds for constructing city works. About 90% of the vote cast was in favor of the works. A report dated July 15 states that Judge Lindsey has granted a temporary injunction, asked for by the Warren Water Co., restraining the city from building the proposed works.

CUMBERLAND, MD.—Mayor Kean has recommended that the council appropriate $2,000 for use by the committee for investigating the advisability of securing a better water supply.

MARTINSBURG, W. VA.—Bids are asked by the water board for furnishing and installing a compound condensing duplex pump of 2,500,000 gallons capacity.

PARKERSBURG, W. VA.—We are informed that the following bids were received July 11 for furnishing and laying 36 and 14-in. submerged water pipe, as advertised in Engineering News; the contract for the 36-in. pipe was let to Thos. H. Regan & Son, Philadelphia, at $12,601, as noted under Contract Prices; the bids for the 14-in. pipe were rejected: A. G. Hallock & Co., Wheeling, W. Va., $15,700 and $1,400, respectively, for 36 and 14-in. pipe, and Jos. Cavanaugh, Parkersburg, $15,800 and $1,450, respectively.

SMITH'S GROVE, KY.—Bids are asked by J. R. Kirby, Farmers' Bank, for furnishing the material and for constructing works, according to reports. There will be a standpipe 12 × 40 ft.

CAMDEN, O.—It is stated that this place is considering the question of building works.

LANCASTER, O.—It is stated that Ingham & Neeb, Lancaster, have been awarded the contract for furnishing the material and for constructing the works and sewerage system for the Boys' Industrial School as follows: Sewerage system, $5,861; sewage purification works, $9,029; pumping station for water-works, $8,827; water-works complete, $10,780; boiler house for steam plant, $7,466; stack for boiler house, $2,300. Addyston Pipe & Steel Co., Cincinnati, O., secured the contract for the cast-iron pipe and specials at $1,963. The contract for the steam plant was not let. C. D. Hilles, Secy. Bd. Trustees.

PAW PAW, MICH.—We are informed that this place voted July 11 to issue $18,000 in bonds for works. The council will be ready for bids about Aug. 15. Engr., Geo. S. Pierson, Kalamazoo, Mich.; Clk., Wm. H. Mason.

YALE, MICH.—Bids are asked until July 26 for constructing the proposed works, as advertised in Engineering News July 7. (Postponement from July 19.) E. F. Fead, Village Clk.

MINNEAPOLIS, MINN.—Bids are asked until Aug. 26 for furnishing and installing one or two 10,000,000-gallon pumping engines, as stated in our advertising columns. F. W. Cappelen, Cy. Engr.; L. A. Lydiard, Cy. Clk.

MORRIS, MINN.—We are informed that the following bids were received July 9 for furnishing the materials and for constructing works. Engrs., Iowa Engineering Co., Clinton, Ia.:

W. I. Gray & Co., Minneapolis, Minn.....	$32,645
Fairbanks, Morse & Co., St. Paul, Minn.....	29,000
Dubuque Construction Co., Dubuque (accepted)..	26,420
P. Doherty, St. Paul	29,893

DES MOINES, IA.—Geo. M. King, Cy. Engr., writes us that the council and the Des Moines Water-Works Co. have reached an agreement. The council has offered the company $850,000 for its works. The company has accepted the same. The question will be submitted to a vote of the people Aug. 29.

GILMORE CITY, IA.—This city is reported to have voted against issuing bonds for works.

GAYLORD, KAN.—The question of putting in a small plant for fire protection is being considered, according to reports. W. H. Haskell may be addressed.

BEATRICE, NEB.—Tests are to be made with a view to securing an increased water supply. W. A. Lapworth, Ch. Engr.

BATESVILLE, ARK.—We are informed that the following bids were received July 14 for furnishing and constructing works and an electric plant; Owen Ford, Engr., Security Bldg., St. Louis, Mo.:

G. Jaeger, Rich Hill, Mo.*.....	$23,985
Reese Bros., Fayetteville, Ark.	25,750
Brown Machinery Co., Little Rock, Ark.....	25,520

*Awarded contract at $24,720; a number of additions making the extra cost.

CORSICANA, TEX.—Press reports state that the receiver for the Corsicana Water Co. is having surveys made south of the city preparatory to the beginning of improvements that will cost about $25,000. The improvements to be made in the plant will consist of an increase of the water shed that supplies the water and an additional reservoir that will in connection with the present storage facilities hold water sufficient for a city twice the size of Corsicana at present.

McKINNEY, TEX.—J. M. Pearson, Mayor, writes us that it is expected to offer a contract for erecting works in about a month or so; estimated cost, $18,000.

WARD, COLO.—D. J. McCanne, Des. Engr., 1700 17th St., Denver, Colo., writes us that the proposed water supply will be furnished by gravity. A reservoir of three acres will be built. There will be required 3,500 ft. of 12-in. riveted steel pipe, 5,000 ft. of 6 and 4-in. pipe, 15 hydrants, 12 valves, 10 boxes, 2,600 lbs. converse hub specials, etc. Bids for the purchase of $8,000 of bonds will be asked first.

SEATTLE, WASH.—The council has voted seven to six in favor of asking for new bids for furnishing and constructing the water tower for the Cedar River supply. The itemized bids were given in our issue of last week. Frank Oleson, Secy. Bd. Pub. Wks.

SACRAMENTO, CAL.—The board of education is considering the question of placing water filters in the public schools.

SONOMA CITY, CAL.—Fred. T. Duhring, Pres. Bd. City Trustees, writes us that the question of building works is still in abeyance while the committee is making investigations on new lines. The matter will not come to a vote before Oct. 25.

IDAHO FALLS, IDAHO.—It is stated that this place will vote Aug. 9 on the question of purchasing the works and light plant of the Eagle Rock Water-Works Co. for $25,000. Geo. Chapin, Chn. Com.

AYLMER, ONT.—The council is reported to have been petitioned to purchase the works for $35,000. Mayor Woods and Councilman Wright may be addressed.

OTTAWA, ONT.—Louis H. Tache, Montreal, Que., is reported to have been awarded the contract for furnishing and constructing the works for Gatineau Point at $30,000. Engr., Ernest Belanger, Montreal, Que.

SEWERAGE.

BREWER, ME.—Bids are asked until July 21 for constructing sewers in several streets. Engr., P. H. Coombs, 11 Exchange Block, Bangor, Me.; Chn. Com., C. C. Worth.—Isaac Lunt, Bangor, has been awarded the contract for constructing sewers in 12 streets at about $7,375.

SPRINGFIELD, MASS.—The harbor and land commissioners have granted this city the right to build a submerged outlet sewer in the Connecticut River.—The committee has visited Worcester, Providence and other cities to study methods for the disposal of sewage, with a view to putting in a system in the Highlands. O. D. Allyn and Gilbert Potvin, Jr., are on the committee.

EAST HARTFORD, CONN.—Wm. H. Olmstead, Surv., is preparing plans, etc., for sewers. It is probable that only a brick sewer will be built this year.

WALLINGFORD, CONN.—Bids are asked until Aug. 2 for furnishing the materials and for constructing 6,600 ft. of 30-in. pipe sewer, as stated in our advertising columns. The committee consists of John E. Downs, Chas. Tooth, Sr., and Wm. I. Todd.

LANCASTER, N. Y.—Allan Gardner, Jamestown, N. Y., has been engaged to prepare plans for a system for this place. Geo. Bingham, Chn. Com.

KINGSTON, N. Y.—J. T. Cummings, Cy. Clk., writes us that it is proposed to construct a 5-ft. brick trunk sewer. It will not be built this year. Other sewers are also proposed. W. Klingberg, Cy. Engr.

NEW YORK, N. Y.—Bids are asked by the commissioners of parks, the Arsenal, Central Park, until July 28 for constructing sewers in Central Park, etc.

ELIZABETH, N. J.—Bids are asked until Aug. 1 for constructing 1,100 ft. of 24 and 12-in. pipe sewers, etc. N. K. Thompson, St. Comr.

FLEMINGTON, N. J.—Bids are asked until July 30 for furnishing the material and for constructing a system and a sewage disposal plant, as described in our advertising columns. Engrs., Waring, Chapman & Farquhar, 874 Broadway, New York; Clk., John H. Shrope.

NEWARK, N. J.—At a conference of officials from Newark, South Orange, Vailsburg and Irvington in regard to the proposed joint sewer, it was decided to ask West Orange to join and then create a commission of five to make surveys, etc. In order to drain Irvington, Vailsburg and that part of Newark which may connect with the proposed sewer, a branch will have to be constructed. This will join the South Orange or trunk sewer at Salem. The cost of the construction of the entire sewer is estimated at $160,000. Councilman Sinclair, South Orange, may be addressed. Ernest Adam, Cy. Engr., Newark.

PATERSON, N. J.—It is proposed to construct 1,200 ft. of 15 and 12-in. pipe sewer. Thos. McLean, Cy. St. Comr.

AVALON, PA.—J. A. Ranson, Sharpsburg, Pa., has been awarded the contract for building the sewers for this place at $25,000, according to reports.

BRADDOCK, PA.—Bids are asked until July 28 for constructing sewers, paving, etc., in Kirkpatrick Ave., North Braddock. Engr., S. A. Taylor, North Braddock, or 339 Fifth Ave., Pittsburg.

OIL CITY, PA.—It is proposed to construct sewers in several streets.

McKEE'S ROCKS, PA.—Bids are asked until July 25 for constructing 3,500 ft. of 72 and 60-in. brick sewers. R. F. Hunter, Borough Engr.; C. K. Barnhardt, Chn. Com.

WASHINGTON, D. C.—The district commissioners have ordered the construction of a 24, 21 and 18-in. pipe sewer in 16th St., from Florida Ave. to Morris St.; estimated cost, $2,875.

WAYCROSS, GA.—R. P. Bird, Clk. Council, writes us that this city voted July 9 against issuing bonds for a system. Another election will be called in January.

LANCASTER, O.—It is stated that the contract for constructing the system for the Boys' Industrial School has been let to Ingham & Neeb, Lancaster, at $5,861; sewage disposal works at $9,029. C. D. Hillis, Secy. Trustees.

TOLEDO, O.—Bids are asked until Aug. 8 for constructing a 24-in. brick sewer and 15 and 10-in. pipe sewers in several streets. L. P. Harris, Cy. Clk.——The committee has rejected the bids received recently for a sewer in Payne Ave.; to cost about $20,000.

AURORA, IND.—Bids are asked until July 30 for constructing sewers in several streets. J. J. Backman, Cy. Clk.

HUNTINGTON, IND.—Bids are asked until July 26 for constructing a 34 × 51 and a 30 × 45-in. brick and 20 to 17-in. pipe sewers in several streets. Frank Guthrie, Cy. Engr.

PORT HURON, MICH.—F. F. Rogers, Cy. Engr., writes us that W. F. Ernst has been awarded the contract for 1,610 ft. of 24 to 8-in. pipe sewer in 14th St., at $2,275.

PORTLAND, MICH.—It is proposed to construct sewers in several streets at a cost of about $3,700. Engr., D. C. Crawford.

CHICAGO, ILL.—Bids are asked until July 25 for constructing sewers in a number of streets, etc. L. E. McGann, Pres. Bd. Local Improvements. J. S. Sheahan, Secy.

EAST ST. LOUIS, ILL.—Bids are asked until July 21 for constructing about 45,000 ft. of 30 to 6-in. pipe sewers, 335,000 brick in manholes, etc. M. M. Stephens, Mayor.

MILWAUKEE, WIS.—Bids are asked by the board for building the proposed sewer tunnel. Geo. H. Benzenberg, Cy. Engr. and Chn. Comrs. Pub. Wks.

DES MOINES, IA.—Geo. M. King, Cy. Engr., writes us that the council has passed a resolution of necessity for constructing 12-in. pipe sewers in Harrison St., from 14th to 13th Sts. and in 13th St., from Harrison to College Ave. and in College Ave., from 13th to 12th St.——According to local papers other sewers are also proposed.

NEW ULM, MINN.—Bids are asked until July 25 for constructing 24 and 18-in. pipe sewers in certain streets. Louis Schilling, Cy. Clk.

OMAHA, NEB.—Bids are asked until July 29 for constructing sewers in district No. 230. Andrew Rosewater, Chn. Bd. Pub. Wks.; Wm. Coburn, Secy.

ANACONDA, MONT.—The council has voted to construct pipe sewers in six streets at a cost of about $8,000. I. O'Leary, Cy. Clk.

TOPEKA, KAN.—The council has voted to build a sewer in Ward No. 1. S. S. McFadden, Cy. Clk.

KANSAS CITY, MO.—The question of building a system for Westport, recently annexed to this city, is being considered; estimated cost, $50,000. If an intercepting sewer is built to the river the cost will be about $300,000. The question of sewers for Mellier Place is also being considered.

GAINESVILLE, TEX.—It is reported that this place has let the contract for building a system here. The fire limits will be supplied first, after which the other parts of the city will be furnished.

DENVER, COLO.—Chief Engineer Lowrie, of the board of public works, is preparing plans for a system of storm sewers for the eastern portion of the city; estimated cost, $750,000.

OAKLAND, CAL.—It has been voted to construct sewers in several streets. J. W. Tompkins, Cy. Clk.

SALINAS, CAL.—Bids are asked until Aug. 1 for furnishing the material and for constructing a sewerage system. J. J. Kelly, Cy. Clk.

LONDON, ONT.—Bids are asked until July 28 for furnishing and laying about 3,300 ft. of 30-in. cast-iron sewer pipe and 300 ft. of 20-in. steel pipe, together with the construction of the syphon chambers, etc. Consult. Engr., Willis Chipman, Toronto; Cy. Engr., Ormsby Graydon; Chn. Com., N. Cooper.

KASLO, B. C.—G. O. Buchanan, ex-alderman, writes us that plans for the proposed system are pending decision of the provincial board of health as to the discharge into Kootenay Lake.

GARBAGE DISPOSAL—STREET CLEANING

BUFFALO, N. Y.—Bids are asked until July 28 for cleaning the paved streets for three or five years, from Aug. 1. R. G. Parsons, Secy. Bd. Pub. Wks.

EAST ORANGE, N. J.—Chas. F. Finan submitted the lowest bid July 11 at $2,900 a year for the scavenger work in this township.

BALTIMORE, MD.—It is proposed to clean the sewers of the city soon at a cost of about $100,000. Street Cleaning Commissioner Bye may be addressed.

WHEELING, W. VA.—A local paper states that the board of health has directed A. L. White, Cy. Engr., to visit eastern cities to study methods of garbage disposal plants. It is estimated that a new plant can be built in this city for $2,500.

NEWPORT, KY.—This city wants estimates, etc., for a garbage disposal plant, as stated in our advertising columns. W. L. Glazier, Cy. Engr.

LOS ANGELES, CAL.—Bids will soon be asked by the council for street sweeping. The present contract expires Nov. 20. The city is paying $5.85 a lin. mile for sweeping the paved streets. It is proposed to have the down-town streets swept next year by hand.

STREETS AND ROADS.

BROOKLINE, MASS.—A. H. French, Cy. Engr., informs us that no action besides making plans and estimates has been taken in regard to the improvement of Boylston St.

MERIDEN, CONN.—Reports state that the council has voted to issue about $200,000 in bonds for paving.

SUFFIELD, CONN.—Bids are asked until Aug. 1 for grading and macadamizing in North St. E. Halladay, First Selectman

BROOKLYN, N. Y.—Bids are asked until Aug. 2 for repairing and maintaining asphalt paving in certain streets and for furnishing broken stone and limestone screenings. The total length is about 16 miles. No bids were received for this work when bids were to be opened recently. It is thought that the method of payment was the cause of no bids being received. J. P. Keating, Comr. Highways, 150 Nassau St., Manhattan.

BUFFALO, N. Y.—Bids are asked until July 27 for paving Clinton St., from Lewis St. to Babcock St. R. G. Parsons, Secy. Bd. Pub. Wks.——Bids are asked until Aug. 1 for paving Porter Ave. with asphalt from Fourth St. to the bridge. G. H. Selkirk, Secy. Park Comrs.

CORTLAND, N. Y.—Bids are asked until July 25 for furnishing the materials and for 22,000 sq. yds. of asphalt and 6,400 sq. yds. of Medina stone or brick paving, as described in our advertising columns. Engr., H. C. Allen, Kirk Block, Syracuse, N. Y.; Clk., W. C. Crombie.

MOUNT VERNON, N. Y.—Bids are asked until July 25 for grading and macadamizing portions of South Columbus Ave. Wm. N. Hoyt, Cy. Clk.

NEWBURGH, N. Y.—The following are the lowest bids received July 1 for paving in South Liberty St.: M. J. Dwyer, granite blocks, $17,285; Hastings Co., New York, asphalt, $25,687; W. R. Johnson, Catskill, brick, $19,760. D. J. Coutant, Clk.

NEW ROCHELLE, N. Y.—The street committee has filed estimates amounting to $125,000 for paving and macadamizing.

NEW YORK, N. Y.—Bids are asked until Aug. 2 for furnishing 100,000 gallons of No. 6 paving cement. J. P. Keating, Comr. Highways, 150 Nassau St.

NORWICH, N. Y.—Bids are asked until July 25 for paving East Main St. and West Main St. with brick, as described in our advertising columns. J. B. Turner, Pres. Bd. Trustees.

ROCHESTER, N. Y.—Contracts were awarded July 8 to the Rochester Vulcanite Paving Co. for asphalt paving in Parsells Ave., at $29,514, and F. A. Brotsch, for brick paving in Spencer St., at $9,965. E. A. Fisher, Cy. Engr.

RIDGEFIELD, N. J.—C. B. Wilson, Clk., informs us that the following bids were received July 12 for constructing a macadam road; advertised in Engineering News, June 23 and 30: Robt. J. Emmer, Highwood Park, complete contract, $8,175; Joseph Murphy, 308 Charles St., West Hoboken, $5,940; D. L. Barrett, Englewood, $7,800; J. A. Winterburn, Edgewater, $4,975; Palisade Construction Co., 1 Montgomery St., Jersey City, $7,976; Cannon & Marronne, $8,400; John Collins, 536 Palisade Ave., Jersey City, curbing, 40 cts. ft.; Telford, 50 cts. sq. yd.; crushed stone, $2 cu. yd.; Brook paving, 12 cts. sq. ft.; excavating, 30 cts. ft.; rock cutting, $2; stone work, 20 cts. ft.; Belgian blocks, $1.50 yd.; mountain dressed stone, 85 cts. yd.; basins, $1.50, complete.

MALVERN, PA.—Bids are asked until July 25 for grading Monument Ave., from Warren Ave. to Sugartown Road. W. G. Watson, Secy. Com.

MEADVILLE, PA.—Bids are asked until July 27 for brick paving, as described in our advertising columns. W. A. Doane, Cy. Engr.; D. T. McKay, Jr., Cy. Clk.

McKEE'S ROCKS, PA.—Bids are asked until July 25 for about 14,000 sq. yds. of asphalt block or brick paving and 10,400 lin. ft. of curbing in Chartiers St. and Bell Ave. R. F. Hunter, Borough Engr.

NANTICOKE, PA.—An ordinance has been passed by the council to pave portions of Main and Market Sts. with brick. Wm. T. Mahon, Pres.; W. J. Burnett, Burgess.

PITTSBURG, PA.—Bids will soon be asked for the construction of five roads, at a cost of about $200,000. Fred. W. Patterson, County Road Engr.

SHAMOKIN, PA.—The council will give a hearing Aug. 23 to vote on the question of borrowing $65,000 for paving.

MANNINGTON, W. VA.—Henry Robrecht, Wheeling, has been awarded a contract for paving with the McMahon, Porter & Co. repressed brick, to cost about $80,000.

BIRMINGHAM, ALA.—A petition has been presented to the county commissioners by the Commercial Club for the construction of a boulevard on the north side of Red Mountain.

BLOUNTVILLE, TENN.—Bids are asked for macadamizing a road between Blountville and Bristol, to cost $3,000. J. H. Cole, Chn. County Comrs.

ASHLAND, O.—Bids are asked until July 30 for the purchase of $60,000 of 5% street and improvement bonds. E. B. Westover, Cy. Clk.

BEREA, O.—Bids are asked until Aug. 1 for the purchase of $3,500 of 5% street bonds. E. S. Loomis, Village Clk.

CANTON, O.—Bids are asked until July 31 for the purchase of $4,834 of 5% street bonds. L. N. Ley, Clk.

FREMONT, O.—Bids are asked until Aug. 15 for paving Hayes Ave. with brick from Front St. to Buckland Ave., and macadamizing and grading a portion of Napoleon St. R. J. Christy, Chn. Improvement Com.

LIMA, O.—Bids are asked until Aug. 8 for the purchase of $73,200 of 5% street improvement bonds. C. E. Lynch, Cy. Clk.

MALTA, O.—Bids are asked by the city clerk until Aug. 20 for the purchase of $10,000 of 5% street bonds.

RAVENNA, O.—An ordinance has been passed to pave Main St. with brick. Work will begin at once.

TOLEDO, O.—Bids are asked until Aug. 8 for furnishing material and paving an alley between St. Clair St. and Superior St. L. P. Harris, Cy. Clk.

LA FAYETTE, IND.—Bids are asked until Aug. 8 for improving portions of seven streets. Thos. W. Burt, Cy. Clk.——A contract will be let in August for constructing about two miles of asphalt pavement; estimated cost, $100,000; and for nearly 20 miles of cement sidewalk; estimated cost, $100,000.

RICHMOND, IND.—Bids are asked until July 29 for grading and paving one alley. J. H. Winder, Clk. Bd.

EAST ST. LOUIS, ILL.—Bids are asked until July 22 for grading, brick paving and sewering a portion of Main and Fourth Sts. M. M. Stephens, Mayor.

KEWANEE, ILL.—Bids are asked until Aug. 2 for brick paving, as stated in our advertising columns. J. C. Quade, Cy. Engr.

WATERTOWN, WIS.—The council has voted to pave Main St. for five blocks.

DES MOINES, IA.—Geo. M. King, Cy. Engr., writes us that the council has passed an ordinance to construct 10,000 sq. yds. of brick pavement.

NEW ULM, MINN.—Bids are asked until July 25 for grading, graveling, etc. Louis Schilling, Cy. Clk.

FARGO, N. DAK.—Reports state that the council is arranging to pave about five miles of streets this summer.

OMAHA, NEB.—Bids are asked until Aug. 15 for about 35,000 cu. yds. of grading D. M. Haverly, County Clk.

OMAHA, NEB.—Bids are asked until July 29 for brick, asphalt or stone paving in 32d Ave., from Davenport St. to Farnham St. Wm. Coburn, Secy. Bd. Pub. Wks.

JEFFERSON CITY, MO.—Bids are asked by the city treasurer until July 25 for the purchase of $6,000 of 5% street bonds.

HOUSTON, TEX.—The ordinance to issue $100,000 in bonds for street improvements has been passed. J. A. Miller, Cy. Engr.

WINDSOR, ONT.—The board of public works has received an estimate of $25,750 for the paving of Second Ave. with asphalt.

MANUFACTURING PLANTS.

ELIZABETH, N. J.—The car repair shops at Elizabethport, belonging to the Central Ry. of N. J., were destroyed by fire July 16, causing a reported loss of about $200,000.

PHILADELPHIA, PA.—The 5-story mill building at American and Diamond Sts., was destroyed by fire July 10, causing a reported loss of $100,000. The building was occupied by Oliver Lupton & Co., Philadelphia Linen Co., Champion Machine Co. and the Franklin Silk Mills Co.

ROCK HILL, S. C.—Wm. O. Webber, Exchange Bldg., Boston, Mass., is reported to have been engaged to prepare plans for enlarging the plant of the Rock Hill Cotton Factory Co. The plant, which has now 7,904 spindles and 192 looms, will be extended to accommodate 10,000 spindles. The improvements will cost about $200,000.

MONTGOMERY, ALA.—The Montgomery Compress Co., it is stated, has let the contracts for building and furnishing its plant; to cost about $30,000. Pres., Jos. P. Farrell; Secy. and Treas., C. L. Stickney.

LOUISVILLE, KY.—L. K. Ferguson, of the Globe Refining Co., writes us that the contract has been let for the building for the plant. The contracts for the storage tanks, boilers and electrical equipment are to be let as soon as the plans are completed. The company is to manufacture seed oils, etc. Arch., John Chambers, Room 39, American National Bank Bldg., Louisville.

LOUISVILLE, KY.—The building occupied by James Clark, Jr., & Co., electrical supplies, on Main St., belonging to H. Weissinger, was destroyed by fire, at a reported loss of $50,000.

CAMBRIDGE, O.—It is reported that the West End Rolling Mill Co. will erect a building to be used for trimming. It will be 30 × 60 ft.

NEW CASTLE, IND.—Press reports state that the New Castle Bridge Works will be extended by the construction of a few new buildings. Runyon & Mouch own the works.

KALAMAZOO, MICH.—The Clark Engine & Boiler Co. will build an additional machine shop at once, according to reports. It will be 40 × 100 ft.

MOLINE, ILL.—Williams, White & Co., it is stated, are arranging to build a new foundry for its plant to be 60 × 140 ft. A 15-ton electric crane, etc., will be required.

LA CROSSE, WIS.—A fire on July 17 is reported to have destroyed the sash and door factory of Segelke-Kohlhaus Co. and the lumber yards of the John Paul Lumber Co., causing a loss of about $150,000.

RACINE, WIS.—The 3-story structure of the Racine Malleable & Wrought Iron Co. was destroyed by fire July 13, resulting in a loss of $100,000 and of probably eight lives.

STEVENS POINT, WIS.—The mill belonging to the Wisconsin River Pulp & Paper Co. has been destroyed by fire, causing a reported loss of about $175,000. It is stated that a new plant will be built.

ST. PAUL, MINN.—Plans are reported to have been prepared for enlarging the shops of the Great Northern Ry. in this city. Work on the shops will begin in about two months.

COFFEYVILLE, KAN.—It is proposed by the Coffeyville Vitrified Brick Co. to build a plant at Cherryvale to have a capacity of about 100,000 brick a day. Besides the machinery there will be required about 200 iron cars, etc.

KANSAS CITY, MO.—Zachary T. Davis, Arch., Chicago, Ill., is preparing plans for the erection of a packing plant for Schwartzchild & Sulzberger, to cost $600,000, according to reports.

ST. JOSEPH, MO.—It is stated that the Jamieson-Combe Iron Co. proposes to build a machine shop, 50 × 80 ft., on ground in this city it recently purchased.

ELGIN, ORE.—It is reported that the capitalists building a beet factory here will send a representative to Walla Walla, Wash., next week. They will propose to the citizens of that city that for a subsidy of $100,000 they will build a beet sugar plant to cost about $400,000.

OTTAWA, ONT.—Reports state that the New York & Ottawa Ry. Co. will erect work shops for the construction of its new road.

CHIHUAHUA, MEX.—It is reported that the Wellman Seaver Engineering Co., New England Bldg., Cincinnati, O., has entered into a contract for the construction of a steel plant, at this place.

GAS PLANTS.

McPHERSON, KAN.—A. Bass, Cy. Engr., informs us that the city is in litigation with the Water & Light Co. and if a compromise is not made a new company will be organized to construct a water and gas plant.

NEW COMPANIES.—Chester Oil Co., Pittsburg, Pa.; $1,000,000, with $1,000 paid in; to bore for oil and gas; F. M. Lowry, W. S. Watson, Wm. Lyons, Jr., H. G. Wasson, J. P. Cappeau, Pittsburg.

Knickerbocker Gas Co., 419 Market St., Camden, N. J.; $500,000 with $1,000 paid in; to manufacture and construct plants, machinery, etc., and produce gas for light, heat and power; Wilson Waddinghand, Edward P. Baker, Geo. H. B. Martin, 419 Market St., Camden.

Mutual Gas Co., Denver, Colo.; $100,000; J. A. Cooper, T. F. Dunaway, Charles Wheeler, F. A. Bailey and William Ridley.

Milford Gas Co., Milford, Pa.; $10,000; to manufacture and sell acetylene gas in the borough of Milford; Thomas Armstrong, Joseph J. Hart, James S. Gale, Harry T. Baker, Milford, Pa.; Lancelot W. Armstrong, New York.

MISCELLANEOUS CONTRACTS.

PARK WORK.—Spokane, Wash.—An ordinance is before the council for an appropriation of $10,000 for improving the parks.

TELEPHONE PLANT.—Terre Haute, Ind.—Bids are asked by the People's Telephone Co., according to reports, for the construction of a plant.

TELEPHONE FRANCHISE.—Lexington, Ky.—The council has granted a 20-year franchise to the East Tennessee Telephone Co. at an annual rental of $.,200.

RIVER WORK.—Buffalo, N. Y.—City Engineer Bardol has completed the plans for improving Buffalo River by widening and dredging, and bids will be asked.

DREDGING.—Brooklyn, N. Y.—Bids are asked until July 27 for dredging Gowanus Canal, from Douglas St. to Union St. James Kane, Comr. Sewers, Municipal Bldg.

RETAINING WALL.—Cincinnati, O.—Bids are asked until July 25 for constructing a retaining wall, between Russell and Ida Sts. A. P. Butterfield, Clk. Bd. Cy. Affairs.

PINE TIMBER.—New York, N. Y.—Bids are asked until July 29 for furnishing about 1,862,455 ft. B. M. of sawed yellow pine timber. J. S. Crain, Comr. Docks, Pier A.

WHARF.—Point Wilson, Wash.—Bids are asked until Aug. 2 for building a wharf at Point Wilson, Wash. Capt. Harry Taylor, U. S. Engr., Burke Bldg., Seattle, Wash.

TELEPHONE SYSTEM.—Mankato, Minn.—Bids are asked by the Mankato Citizens' Telephone Co. until July 29 for constructing a telephone system, according to reports.

STERILIZING APPARATUS.—Dunning, Ill.—Bids are asked until July 25 for installing a sterilizing apparatus at the Dunning Institution. E. D. Northam, Supt. Pub. Service, Chicago.

MONUMENT.—Olean, N. Y.—The G. A. R. is contemplating the building of a soldiers memorial fountain and monument to cost about $5,000. Henry Gale, Commander, may be addressed.

STONE COPING, FLAG, ETC.—Brooklyn, N. Y.—Bids are asked until July 28 for furnishing stone coping, curb and flag. Geo. C. Clausen, Chn. Park Comrs., Arsenal Bldg., Central Park.

TELEPHONE SYSTEM.—Birmingham, Ala.—The council has granted permission to the American Telephone & Telegraph Co. to construct and operate a telegraph and telephone system. F. V. Evans, Mayor.

GRADING.—St. Louis, Mo.—Bids were received until July 20 for about 150,000 cu. yds. of grading in the district north and south of Russell Ave. Address Pitzman Co., Surys. and Engrs., 615 Chestnut St.

PARKS.—Indianapolis, Ind.—The council has passed an ordinance authorizing the expenditure of $235,215 for the purchase of land and laying out parks. Messrs. McGrew, Merrick and Crall, Pub. Improvement Com.

TELEPHONE CABLES.—Buffalo, N. Y.—The National Conduit & Cable Co., New York, has been awarded a contract at $3,515 to furnish saturated cable for constructing a telephone system for the police department.

TRAVELING CRANES.—Chicago, Ill.—Plans are asked until Aug. 30 for the erection of electric traveling cranes for the new pumping stations at Springfield Ave. and at Central Park Ave. L. E. McGann, Comr. Pub. Wks.

FURNITURE.—Binghamton, N. Y.—Bids are asked until Aug. 9 for furnishing desks, tables, filing cases, chairs and other necessary furniture for the new city hall, as stated in our advertising columns. Burr W. Mosher, Cy. Clk.

TELEPHONE SYSTEM.—Baltimore, Md.—J. A. Shriever, Pres. Baltimore & Blaire Telephone Co., has applied to the county commissioners for permission to construct telephone lines to connect with a number of towns throughout the county.

DAM, TUNNEL, ETC.—Ogden, Utah.—Bids are asked until Aug. 4 for constructing a rock-filled dam to be 68 ft. high and an outlet tunnel 180 ft. long, for the Davis & Weber Counties Canal Co., as described in our advertising columns. Pres., C. B. Adams; Ch. Engr., W. M. Bostaph; Consult. Engr., Sam'l Forties.

STEAMSHIPS.—Newport News, Va.—Reports state that the Morgan Line Steampship Co., New York, N. Y., has awarded a contract to the Newport News Shipbuilding & Dry Dock Co., at $2,500,000, for the construction of three steamships 400 ft. long, 50 ft. beam and 35 ft. deep, with a capacity of about 5,000 tons each.

CONTRACT PRICES.

MACADAMIZING.—Easton, Pa.—The following bids were received by the county commissioners July 8 for rebuilding the Delaware road to Snyder's Bridge, a distance of about 6½ miles; the roadbed will be 12 ft. wide, and 9 ins. deep for telford, and 6 ins. deep for macadam; total bid, about $20,000; Engr., J. Marshall Young:

Bids Received at Easton, Pa., July 8, 1898, for Macadamizing.

Bidder.	Excavation, a cu.yd.	Price a lin. ft.—Telford,—Limestone.	Telford,—Trap rock.	Macadam—Limestone.	Macadam—Trap rock.	Drains, a lin. ft.—10-in.	12-in.	16-in.	18-in.
Osborne & Marcelles, Upper Montclair, N. J.	$0.32	$0.74	$0.89	$0.575	$0.70	$0.80	$1.00	$1.50	$2.00
Standard Construction Co., Easton, Pa.	.35	.755	.91	.59	.72	.75	.95	1.37	2.10
T. M. Lesher & Sons, Easton, Pa. (lowest)	.24	.52	.59	.45	.52	.55	.68	1.00	1.15
Delaware River Quarry Con. Co., Lambertville, N.J.	.25	.53	.62	.48	.53	.58	.70	1.05	1.21
Wright & Lindsley, Orange, N. J.	.25	.81	.93	.62	.74	1.25	1.50	1.90	2.50

PIPE SEWERS.—Albany, N. Y.—The following bids were received by the board of contract July 18, 1898, for constructing a pipe sewer in Dove and Spruce Sts.; contract awarded to Michael F. Dollard:

Quantities.		Michael F. Dollard.	Wm. R. Reynolds.
18-in. ex. heavy vit. pipe.	180 lin. ft.	$1.47	$1.56
15-in. " " " "	530 " "	1.04	1.10
6-in. vitrified pipe	900 " "	.12	.11
18-in. Ys	6 each	3.05	3.50
15-in. Ys.	50 "	2.47	2.50
Manholes	2 "	40.00	40.00
Receiving basins	2 "	70.00	75.00
Lampholes	1	12.50	12.00
Lateral trenches	900 lin. ft.	.35	.45
6-in. bends	56 each	.35	.30
Total		$1,633	$1,773

BRICK PAVING.—Albany, N. Y.—The following bids were received by the board of contract July 18, 1898, for brick paving in Partridge St., between Madison and Western Aves.; Ed. T. Dillon awarded contract:

Quantities.		Ed. T. Dillon.	Mulderry Bros.
Brick		Catskill.	Catskill.
Cements		Helderburg / Alpha.	Helderburg / Portland
Brick pavement	2,260 sq. yds.	$1.98	$2.08
New granite curb	1,270 lin. ft.	.80	.90
Circular curb	115 " "	.90	.90
Pvm't relaid, sand	20 sq. yds.	.20	.50
Relaid, concrete.	5 " "	3.00	3.00
Curb, relaid, sand.	10 lin. ft.	.15	.25
Relaid, concrete.	10 " "	.35	.50
Sod	1,670 sq. yds.	.18	.25
New 5-ft. flag	5,740 sq. ft.	.21	.17
Flag relaid	1,670 " "	.08	.075
Receiving basins	1	95.00	90.00
Altered	2 each	25.00	30.00
House drains	142 lin. ft.	.55	.60
6-in. bends	9 each	.55	.35
Labor, pounding.	18 days	1.50	1.50
Total		$7,638	$7,844
Days to complete, at $5 a day		25	16

BRICK SEWER.—Muscatine, Ia.—J. J. Ryan, Cy. Engr., informs us that the following bids were received July 5, 1898, for constructing a main sewer in district No. 2; J. Beckey & Co. made lump bid of $3,908; contract awarded William Horrabin:

Quantities.		Wm. Doering, Muscatine.	Wm. Horrabin, Iowa City.	A. Plepp & Co., Muscatine.
24x38-in. sewer*	618 lin. ft.	$2.24	$2.035	$2.35
28x42-in. sewer†	1,012 " "	2.24	2.11	2.40
10-in. pipe connect'ns	360 " "	.47	.24	.47
6-in. sewer branches.	140 " "	.10	.09	.10
Manholes	6 each	24.00	23.10	27.75
Receiving basins	10 "	4.00	3.50	4.00
Masonry outlet	1	33.00	30.00	36.00
Total		$4,153	$3,696	$4,307

*Average cut, 10½ ft. †Average cut, 12 ft.

SEWERS.—Parkersburg, W. Va.—John V. Dunbar, Cy. Engr., informs us that the following bids were received July 11, 1898, for constructing certain sewers, as advertised in Engineering News; S. E. Irwin received award for whole work; about 1,000 ft. of the 8,371 ft. of 8-in. sewers will be in quicksand, requiring sheet piling, also 1,000 ft. in sand, balance of material is hard clay; 600 ft. of tunnel is expected to be in hard clay, not rock, as anticipated:

Bids Received at Parkersburg, W. Va., July 11, 1898, for Constructing Sewers.

Quantities.		G. Ashman, Cincinnati, O.	T. S. Savage, Parkersb'rg, W.Va.	S. E. Irwin, Hamilton, O.	L. G. Halleck, Wheeling, W.Va.	G. M. Bowery, Parkersb'rg, W.Va.	Martin Hare, Parkersburg, W. Va.	J. Cavanaugh, Parkersb'rg, W.Va.
8-in. pipe sewer:								
Furnishing and laying 8-in. pipe	8,371 lin. ft.	$0.25	$0.13¾	$0.10	$0.58	$0.12½	$0.22	$0.58
Excavation, 8 to 10 ft., and backfilling.	8,371 " "	1.00	.30	.26*	...†	.33⅓	.28½	†...
Manholes	31 each	40.00	75.00‡	31.00	35.10	40.65	42.60	35.00
Flushtanks	6 "	60.00	49.00	30.00	43.67	47.87	56.83	42.67
Y's	370 "	.50	...	...	.27	.41	.27	.27
Total		$12,286	$4,964	$4,287	$6,411	$5,519	$6,824	$6,396
15-in. outlet sewer and tunnel:								
Furnishing and laying 15-in. pipe	3,087 lin. ft.	$0.40	....‡	$0.20	$0.35	.....	$0.58	$0.35
Furnishing and laying 8-in. pipe	20 " "	.25	.45	.75	.15	.....	.25	.15
6-in. chimney pipe	200 " "	.20	.15	.15	.....	.....	.25	.15
Excavating and backfilling, 16 ft. deep	700 " "	1.70	1.49	1.25	2.00	.....	1.00	2.50
" " " 12 to 22 ft.	400 " "	1.70	1.49	1.45	1.97	.....	1.00	1.97
" " " 9 " 12 "	1,387 " "	1.40	1.49	.80	.70	.....	1.00	.70
" tunnel, 5x7 ft.	600 " "	10.00	4.25	2.50	4.66	.....	10.00	4.66
Y or T-branches	100 each	1.50	1.00	5.00	.90	.....	.45	.90
Conc. backing for pipe sewer in tunnel	51½ cu. yds.	6.00	4.25‡	3.00	6.75	.....	4.50	6.50
Manholes: (2) 22 ft., (3) 16 ft., (7) 10 ft.	12 each	38.75	38.41	31.00	48.88	.....	55.75	48.88
Lumber in place	48,000 ft. B.M.	20.00	20.00	20.00	.....	.....	35.00	.....
Extra for solid rock		6.00	7.00	5.00	3.50	.....	.....	3.50
Total		$12,492	$7,686	$6,835	$8,063	.....	$12,900	$8,400

*26 and 29 cts. full bid. †This price, 58 cts., covers the furnishing and also the excavation, made by the two bidders. ‡Added to the $875.00 for 1, and $28.00 for 30 manholes. excavating bid. ‖$4.25 is the price a ft. complete for work in tunnel.

ELECTRIC LIGHTING.—Los Angeles, Cal.—The council received the following bids June 27, 1898, for lighting city with electricity, as described in our issue of June 30: Specifications A—Same system as at present, with 180 new lights, a total of 640 lights; Los Angeles Lighting Co., $6.50 a light; there was no other bid under these specifications. Specifications B—Calling for full 734 lights, removing high poles and substituting for each pole, six arc lights; Los Angeles Lighting Co., $6.70; Edison Electric Co., $6.94. Specifications C—Calling for the construction of a complete pole and wire system, to be owned by the city; San Gabriel Electric Co., $125,930; California Electrical Works, $125,540. Specifications D—For lights alone; California Electrical Co., $7,950 for 500 lights, or $15,000 for 1,000 lights. Specifications E—For furnishing electrical energy for all the lights necessary for lighting the city; San Gabriel Electric Co., $4.25 a light. No bids were received under Specifications F. Specifications G—For power lights and maintenance of a pole and wire system to be owned by the city, 740 lights; the Los Angeles Electric Co., $5.75 a light. The lowest bid of the Los Angeles Lighting Co. is accepted. The city next year will spend for 680 lights, $53,040. This is for all-night, everynight service. This year it spends for 460 lights, midnight, moonlight schedule, $49,680.

MACADAMIZING.—Pekin, Ill.—The following bids were received by the committee of the Citizens Improvement Association for macadamizing a road, the contract being let to the Dunbar Co., Peoria, Ill., for a 14-ft. roadbed, 124 ins. deep, a 12-ton road roller to be used:

	Width of road.	Road roller, tons.	A lin. ft.
Crescent Stone Co., Peoria, Ill	14 ft.	12	$1.04
	14 "	6	.94
	16 "	12	1.10
	16 "	6	1.00
Dunbar & Co., Peoria	14 "	6 to 8	.99
	16 "	6 to 8	1.13
Campbell & Co., Joliet, Ill	14 "	...	.94
	16 "	7½	1.04
		7½	1.18

BRICK PAVING.—Muscatine, Ia.—We are informed that the following bids were received July 15 for brick paving in districts Nos. 14 and 15; in No. 14 foundation is of old macadam and sand, 6 ins., one course brick; No. 15 foundation, 6 ins. sand, one course brick; J. J. Ryan, Cy. Engr.:

Bids Received at Muscatine, Ia., July 15, 1898, for Brick Paving in Districts Nos. 14 and 15.

Bidder.	District No. 14.—Excavation, 7,000 c. yds.	Concrete curb, 2,831 lin. ft.	Alley, 600 lin. ft.	Brick paving 9,400 sq. yds.—Buf- falo.	Des M'nes.	Total.	District No. 15.—Excavation, 4,000 c.yds.	Concrete curb, 2,216 lin.ft.	Alley, 3,000 lin. ft.	Brick paving, 7,075 sq. yds.—Buf- falo.	Des M'nes.	Total.
E. Baker, Muscatine, Ia.	$0.175	$0.45	$0.39	$0.945	$0.96	$11.616[1]	$0.155	$0.54	$0.39	$0.945	$0.96	$9.663[2]
William Horrabin, Iowa City	.29	.31	.20	...	.87	11,206	.23	.445	.20	...	.885	8,759
Edwards & Walsh Constn Co., Davenport	.12	.38	.20	.90	...	10,498[3]	.15	.50	.20	.91	...	8,737
Fuller Bros., Muscatine, Ia.	.46	.525	.21	.895	...	13,762	.125	.485	.24	.895	...	8,018[3]
Berry & Welch, Iowa City, Ia.	.19	.325	.245	...	.96	11,421	.21	.46	.245	...	.97	9,447

[1]This total is for Buffalo brick; total for Des Moines, $9,769. [2]This total for Buffalo brick; Des Moines brick, $11,757. [3]Awarded contracts.

ASPHALT PAVING.—Montreal, Que.—Bellhouse, Dillon & Co. have been awarded the contract for asphalt paving in Craig St. at $2.41 a sq. yd.

SUBMERGED WATER PIPE.—Parkersburg, W. Va.—We are informed that the following contract was let July 11, 1898, to Thos. H. Regan & Son, Philadelphia, Pa., for furnishing the material and for constructing a 36-in. submerged pipe, etc., as advertised in Engineering News: Pump Well Section (Section C to near Station 2)—Excavating and timbering tunnel, 7x7 ft. in clear, $8.50 a lin. ft.; cofferdam and excavation at shore, for relaying pipe, $9.50 a lin. ft.; relaying 36-in. pipe in the above section, and back filling, $3.75 a lin. ft.; furnishing and putting in place, new gate or valve (plan submitted), $460. River Section, [a] (from near Station 2 to Station 10)—Excavating, furnishing and laying 36-in. pipe in cofferdam, to near Station 7, $11.21 a lin. ft.; dredging out trench and laying pipe from Station 7 to channel, 312 ft., from barges or floats, including flexible joints every four lengths, $10.40 a lin. ft. River Section [b]—Dredging and laying pipe, from barges and floats, from near Station 2 to channel in river, 812 ft., including flexible joints every four lengths, $11.21 a lin. ft.; laying about 700 ft. of 14-in. conduit, from near line of low water to channel (city to furnish pipe), $3.98 a lin. ft.; furnishing and laying 12-in. by-pass, connecting discharging main with 36-in. conduit, $7.45 a lin. ft.; furnishing and putting in place a 12-in. stop valve on by-pass, $37.00; 12-in. "Y" or "T" branch on 36-in. conduit, above the price of straight pipe, $27.60 a lin. ft. The contract was let for the 36-in. conduit on Plan [a] at $12,601. Smaller conduit was not let.

BRICK PAVING.—Swanton, O.—We are informed that the following bids were received July 11, 1898, for brick paving, as advertised in Engineering News; Engrs., Riggs & Sherman, The Nasby, Toledo, O.:

Items.		Thos. McKinney, Toledo, O.	M. F. Bramley Cleveland, O.	Flisher, Kenfer & Bailey, Huntington, Ind.	D. R. McArthur & Co., Kenton, O.	J. C. Carland, Toledo, O.
Excavation		$0.10	$0.13	$0.13	$0.15	$0.11
Catchbasin		14.00	16.00	15.50	17.00	22.00
Inlets		10.00	1.00	2.00	7.00	10.00
Monument corners		1.00	4.00	3.50	3.00	1.00
Curbing		.26	.15	.31	.30	.28
Paving	Metropolitan	1.22	1.25	1.28	1.28	1.28
	Nelsonville	1.10	1.25	1.22	...	1.25
	Townsend	1.14	1.25	...	...	...
	Wassail	1.16	1.25	...	1.22	...
	Louisville	1.15	1.25	...	1.21	1.28
	Blue granite	1.13	1.25	...	...	...
	Athens	1.10	1.25	1.22	...	...
Cement filler		.07	.12	.11	.11	.07
Tar filler		.13	.12	.12	.12	.15
Drain tile		.03	.02	.04	.06	.03
Total		$5,984	$6,683	$6,809	$7,022	$6,756

DREDGING.—Marcus Hook, Del.—Lt.-Col. C. W. Raymond, U. S. Engr., Philadelphia, received the following bids July 5, 1898, for dredging from bulkhead bar and Marcus Hook ice pier, Del., approximate quantity of material to be removed, 1,050,000 cu. yds:

	Cts. a cu. yd.
P. Sanford Ross, Inc., Jersey City, N. J.	9⅝
Atlas Dredging Co., Wilmington, Del.	10
American Dredging Co., Philadelphia.	7½
International Contracting Co., Syracuse, N. Y.	11¾
River & Harbor Improvement Co., Camden, N. J.	6⅞
Baltimore Dredging Co., Baltimore, Md.	10
Morris & Cummings Dredging Co., New York.	9
Virginia Dredging Co., Richmond, Va.	8.49
Frank H. Brainard, New York.	9½

ASPHALT PAVING.—Philadelphia, Pa.—Aaron Ward is reported to have been awarded the contract for asphalt paving in certain streets, at $1.39 a sq. yd.; total, about $200,000.

CURBING AND GRADING.—Kansas City, Mo.—The following contracts were let July 1, 1898, by the Park Commissioners for curbing and grading at the Paseo: Curbing around the Paseo, 9th to 15th St., Kansas City Sidewalk & Cement Co., 71 cts.; guttering and curbing, $1.05 a ft.; from 15th St. to south end of Paseo, M. Schoonmaker, curbing, 65 cts.; curbing and guttering, $1.05.

PAVING.—Kansas City, Mo.—The following contracts have been let by the public improvements committee for certain paving: Asphalt paving—12th St., Prospect Ave., Forest Ave., Barber Asphalt Paving Co., $2.12 a sq. yd., total, $61,567; Brick Paving—18th St., Fred. Feigel, $1.47¼ a sq. yd., total, $6,779; Roberts St., Walter Hickman, $1.52 a sq. yd.; $2,420; 24th St., Boyd Construction Co., $1.59 a sq. yd., $10,950.

WATER-WORKS.—Cambridge Springs, Pa.—We are informed that the following contract was let July 11, 1898, to Chandley Bros. & Co., Beaver Falls, Pa., for furnishing and constructing works, as advertised in Engineering News; Geo. L. Wade, Cy. Clk.: Furnishing about 456 tons of cast-iron water pipe, $15.30 a ton of 2,000 lbs.; about 2,000 lbs. special castings, 2 cts. a lb.; 37 hydrants, with two 2½-in. hose nozzles and 6-in. bottom connections, $22.50 each; 14 hydrants, with two 2½-in. hose nozzles, and 4-in. bottom connections, $21.00 each; 10 10-in. gate valves, $21.00 each;

3 8-in. gate valves,$15.00 each; 25 6-in. gate valves,$10 each; 16 4-in. gate valves, $6.00 each; 54 valve boxes, for above, $2.25 each; laying 5,904 ft. 10-in. pipe, 20 cts. a lin. ft.; 1,008 ft. 8-in. pipe, 18 cts. a lin. ft.; 11,640 ft. 6-in. pipe, 14 cts. a lin. ft.; 8,208 ft. 4-in. pipe, 12 cts. a lin. ft.; rock excavation in trenches, $2 a cu. yd.; furnishing and setting up two power pumps, $1,800; two gas engines, $1,700; pumping station, as per plans and specifications, $1,305; constructing impounding well, $708; furnishing and erecting steel stand-pipe and foundation, as per specifications, $2,235; connecting tubular wells with impounding well, $215. Total, $20,788. One engine and one pump were eliminated from the contract, also substituting 55-in. pipe for 60-in., made the reduction in total bid on proposal blank; total bid, $18,964.

INDUSTRIAL NOTES.

THE AMERICAN IMPULSE WHEEL CO., 120 Liberty St., New York, has the contract to furnish water wheels for the city lighting station, at Columbus, O.

THE WARREN-SCHARF ASPHALT PAVING CO., New York, is reported to have opened an office at 92 Sparks St., Ottawa, Ont., in charge of Mr. W. G. Mackendrick, Supt.

THE PACIFIC FLUSH TANK CO., Chicago, has removed its Canadian agency from Toronto to Niagara Falls, Ont. Mr. Victor Hill, P. O. Box 245, is the manager of this branch.

THE VIRGINIA BRIDGE & IRON CO., Roanoke, Va., has the contract for an 18-ft. roadway steel highway bridge, consisting of two 140-ft. spans on steel cylinder piers, over the Saiunda River, Piedmont, S. C.

THE WELLS LIGHT MFG. CO., 44 and 46 Washington St., New York, reports a large number of shipments of its lights for use at fortifications, for coast defence, etc. The company has also made a large consignment of its lights to Cuba within the past few days.

THE DRESSEL RAILWAY LAMP WORKS, New York, has presented to the engineering laboratory of Purdue University, Lafayette, Ind., a complete outfit of locomotive lamps, consisting of a pair of engine classification lamps, one steam gage lamp and one water gage lamp.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, Pa., has received orders for 80 locomotives from the Russian government for the Manchurian Ry. in the nine weeks ending May 31, 1898, and within the previous six months orders were sent to the works for 138 locomotives.

THE BUSHNELL MFG. CO., Easton, Pa., manufacturers of car seats, spiral springs and car berths, is to have its plant sold at receiver's sale, Aug. 17, 1898, as stated in our advertising columns (page xviii.). Mr. Charles Hansel, 43 Cedar St., New York, is the Receiver and Manager.

JOHN F. O'ROURKE, 44 Broadway, New York, engineer and contractor, has received the contract for eight pneumatic caissons for the foundations of the new five-story residence for Mrs. Margaret L. V. Shepard, to be erected at 11 and 13 East 62d St., New York, at a cost of $75,000.

MR. CLARENCE LIVINGSTON BURGER, patent attorney and expert, has associated Mr. Louis B. Adams with him in the practice of patent and trade-mark law, under the firm name of Burger & Adams. The offices of the firm remain in the Postal Telegraph Bldg., 253 Broadway, New York, where Mr. Adams also continues the general practice of law.

THE SHERIDAN IRON CO., Reading, Pa., controlling two of the largest blast furnaces in Pennsylvania, according to report, has been organized, and the following officers elected: Pres., Mr. Thos. Sobarth, London, England.; Secy., Mr. Hugh Llenebeer, London, England; Mr. E. Bird Grubb, Philadelphia.

HUGHES BROS. & BANGS, Syracuse and New York, contractors for river and harbor work, are the owners of seven lighters and three tugs, all new, which the United States government is reported to have given notice that it intends to impress into the service for war purposes, to be used in landing supplies and troops.

THE INTERNATIONAL BRAKE SHOE CO., Chicago, reports that Mr. W. D. Sargent, its President, sailed for Europe last week to make arrangements for the manufacture of the Diamond "S" shoe in several European countries, including Russia. The success of the shoe since its introduction last fall has been little short of phenomenal, and few if any railway devices have been so thoroughly and consistently pushed on all occasions.

THE PITTSBURG BRIDGE CO., Pittsburg, has secured, through Mr. F. C. Black, Spartanburg, S. C., agent for North and South Carolina, the contract for a 105-ft. steel highway bridge over South Tiger River, near Duncans, S. C.

THE WROUGHT IRON BRIDGE CO., Canton, O., through its agents, Wynkoop & Braly, 1 and 3 Union Square, New York, has received the following contracts. New steel bridge at Whippany, near Morristown, N. J.; steel work for the new building of the New York Sugar Refinery Co., Brooklyn, N. Y., and seven steel bridges from the board of chosen freeholders, Flemington, N. J.

THE W. S. DICKEY CLAY MFG. CO., Kansas City, Mo., opened its new works for the manufacture of sewer and culvert pipe, etc., at Deepwater, Mo., June 27, replacing the plant destroyed by fire last August. The company's property at Deepwater consists of 320 acres of fine clay and coal lands, on which are located two plants, one devoted to the manufacture of sewer pipe and the other to that of building brick, unglazed tile, vitrified and fire brick. The new buildings are of brick, of the company's manufacture, and consist of a main building, 82 × 322 ft., four stories in height; an annex 97 ft. square of the same height, and a power building, 60 × 80 ft., with an iron truss roof, containing three 300-HP. Babcock & Wilcox boilers. The machinery is driven by a Hamilton-Corliss engine, and the plant is lighted by a Fort Wayne Electric Corporation dynamo, operated by a McAlfree high-speed engine. The building also contains two Worthington steam pumps taking water from an artificial lake, 30 ft. deep and several acres in extent, which gives a natural pressure for fire protection.

THE WALKER CO., Cleveland, O., has a contract from the Union Carbide Co., Chicago, consisting of twenty 500-HP. single phase, alternating current dynamos, to deliver a current of 2,500 amperes at 200 volts, and five 100-HP. direct current dynamos, as exciters, besides a complete switchboard for all of the dynamos. The plant will be installed at the falls at Sault Ste. Marie, Mich., where calcium carbide will be produced on the largest scale ever attempted. The Union Carbide Co. has acquired the rights of manufacture for the United States, it is stated, and will make the above its main works. They are being built to accommodate 40 dynamos and an equal number of electric furnaces, in which the lime and carbon are fused into calcium carbide.——On account of the rush of work and the consequent need of additional space, the company has found it necessary to add to the large machine shops at its Cleveland works. The machine shops alone consist of three bays each 400 ft. long and the addition will consist of a fourth bay. Work is being rapidly pushed and the new bay will be shortly completed and ready to receive the large machine tools that are to be placed there.

THE PELTON WATER WHEEL CO., San Francisco, Cal., reports a satisfactory business for the first half of this year. Stations for electric power transmission continue to be an important feature of the business of the company, and among its more recent contracts are the following: A 1,200-HP. plant to operate the Odawara Electric Ry., Japan; the wheel to run under 400 ft. head; 650 HP. to operate a cotton factory in Japan; 500 HP. for the Blue Lakes (Cal.) electric power plant; 300 HP. for the Auburn, Cal., station of the Central California Power Co.; 1,800 HP. for the Tuolumne (Cal.) Electric Power Co.; 750 HP. for the Griffith mine, Tuolumne, Cal.; 250 HP. for the Ventura (Cal.) Electric Light & Power Co.; 1,200 HP. for a British Columbia railway company; 250 HP. for the Salt Lake & Ogden Ry.; 300 HP. for the Farfan Electric Power Co., Peru; seven wheels for the California Powder Works, Santa Cruz, Cal.; four wheels to run air compressor plants in Alaska; nine wheels for various mining companies in Alaska and British Columbia; three wheels for Central America; seven wheels for various mining purposes in Mexico, and 13 wheels for similar purposes in Utah, Montana and Idaho.

THE WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, has just sold to the Manufacturers' Building Co., Providence, R. I., a 250-K-W. 500-volt Westinghouse engine-type dynamo, running at 100 revolutions a minute, to be driven by an Armington & Sims Corliss engine, which will supply power for the operation of motors in the various manufacturing departments of the Manufacturers' building, said to be one of the largest and best equipped power buildings in the United States. The engineering features are under the direction of Lewis & Claflin, consulting engineers. The building has accommodations for upwards of 60 manufacturing concerns, being particularly equipped with conveniences for the production of jewelry, specialties, etc.——The company has installed a large amount of apparatus for the production of refined copper by electrolytic processes, one of the principal installations being at the refinery of the Anaconda Copper Co., Anaconda, Mont., where 10 dynamo of 270 to 300 K-W. capacity have been installed. Another large installation is that of the Boston & Montana Consolidated Copper & Silver Mining Co., Great Falls, Mont., where two 810-K-W. Westinghouse engine-type dynamos are in service.——The Raritan Copper Works, Perth Amboy, N. J., is about to erect a large copper refinery, and has contracted with the Westinghouse company for three 600-K-W. 150-volt engine-type dynamos, making 150 revolutions a minute, with a nine-section switchboard for electrolytic service, and the operation of two 75-K-W. 220-volt engine-type dynamos, which will be used for lighting and power service. This installation, it is stated, will be the most complete of its kind in the world.

NEW COMPANIES.—Long Island Sand Co., 76 Montgomery St., Jersey City, N. J.; $5,000, commencing with $1,080; to deal in all kinds of sand, stone, lime, etc.; Chas. P. Smith, Jersey City; W. J. Timberman, Maywood, N. J.; Lindley M. Franklin, Flushing (L. I.), N. Y.; Wm. E. R. Smith, East Orange, N. J.; E. B. Archer, Hackensack, N. J.

Daylight Glass Co., New York; $505,000, commencing with $600; to manufacture and deal in prismatic glass, etc.; G. K. Cummings, Fort Wadsworth, N. Y. H.; Richard Wagner, William Weterer, J. H. Steinhart and F. A. Ballard, all of New York.

Edgerton Press & Mfg. Co., Jersey City, N. J.; $100,000, commencing with $1,000; to manufacture presses for the treatment of tankage, etc.; Charles Edgerton, E. G. Maturin, Wm. W. Gooch, Horace J. Ettridge and Geo. C. Du Bois, all of 60 Grand St., Jersey City.

Pianophone Co., New York; $300,000, commencing with $50; to manufacture and deal in mechanical specialties; C. W. Youngman, J. R. Lowther, J. L. Schrader, E. G. Boltz and M. A. Jones, of New York.

Philadelphia Utilization Co., Philadelphia, Pa.; $100,000, commencing with $2,500; to manufacture fertilizers, lubricating greases, etc.; William Layer, Wm. H. Wade, Benjamin F. Howland and C. B. Livezey, all of Philadelphia; S. B. Schenck, Newark, N. J.

International Improved Combustion Co., Middlebury, Vt.; $3,000,000, commencing with $100; to manufacture and sell stoves, furnaces, etc.; Robert Cartmell, Allan Calhoun and Oliver Serverance, all of Middlebury; C. R. Witherall, Cornwall, Vt.; Dr. J. S. Dodge, Lincoln, Vt.

West Virginia Grubber & Tool Co., Charleston, W. Va.; $100,000, commencing with $50; to manufacture and sell improved farming implements; G. W. Atkinson, U. S. Laidley, H. C. McWhorter, J. A. de Gruyter and Fred Gardner, all of Charleston.

Frank M. Pierce Engineering Co., New York; $10,000; Frank M. Pierce and Philo B. Tingley, New York; George F. Tremain, Hoboken, N. J.

National Boiler Works Co., Syracuse, N. Y.; $40,000; William M. Wood, Media, Pa.; Howard N. Babcock, Syracuse; H. T. Webb, Skaneateles; Robert Joy, Oswego.

Titian Steel Co., Chicago, Ill.; $500,000; Eugene E. Pressing, Frank H. McCulloch, Edward Bernman.

Chicago Portland Cement Co., Chicago, Ill.; $250,000; David R. Fraser, Norman Fraser, Ralph Bates.

Wheeler Compensating Motor Co., Louisville, Ky.; $25,000; to manufacture and sell engines, locomotives, etc., and a rotary compensating motor, patented by Mr. Wheeler; Robert Hewitt Wheeler, S. L. Mason, J. W. Seaton.

Austin Portland Cement Mfg. Co., Austin, Tex.; $50,000; to manufacture cement; E. G. Stolley, A. T. Rose, S. Silverman.

Litchfield Machine Co., Litchfield, Ill.; $50,000; to erect a plant for the manufacture of machinery; S. M. Grubbs, George W. Amsden, E. A. Amsden.

Joseph J. Gleason Co., New York, N. Y.; $10,000; to construct buildings upon property under the leases made by the Manhattan Ry. Co.; Joseph J. Gleason, Michael J. Drummond, William H. Huxley, Frederick D. Mason, New York.

Seamless Metal Ware Co., New York, N. Y.; $150,000; to manufacture metal ware; E. G. Fabbri and Allessandro Fabbri, Scarborough, N. Y.; Adolphe E. Borie, Benoni Lockwood, Jr., and Edmund L. Zalinski, New York.

A. L. Sweet Iron Works, Medina, N. Y.; $200,000; Albert L. Sweet, L. M. Sweet, Arthur J. Howard, F. Marion Poler, Albert S. Braughton, Medina.

Stanton Mfg. Co., Portland, Me.; $1,000,000, commencing with $70; to manufacture and deal in machinery; Louis C. Stanton, Pres., Newton, Mass.; G. F. Cunningham, Treas., Boston, Mass.

Phoenix Foundry Co., Pittsburg, Pa.; $12,000; John Jackson, Allegheny; Peter Newlands, Harry Newlands, John P. Provost, Daniel Bingham, Pittsburg.

Southern Illinois Construction Co., East St. Louis, Ill.; Charles L. Gray, Frank L. Thrasher, William J. Eddinger.

Star Mfg., Chemical & Commercial Co., Syracuse, N. Y.; $100,000, commencing with $50; G. O. Chilton, Charles W. Smith, D. M. Black, E. H. Carwithen and H. H. White, Charleston, W. Va.

Bushnell Telephone Co., Chicago, Ill.; $5,000; Joel Lightner, E. E. Johnson, H. A. Cleveland.

International Construction & Improvement Co., Fort Smith, Ark.; $1,000,000; to construct railways, bridges, etc.; Jesse French, John L. French, John Dooley, St. Louis; H. D. Mackay, Ponoma, Mo.; J. S. Drake, Fort Smith.

Buffalo Telephone Co., Buffalo, Wyo.; $5,000; to construct and operate a telephone and telegraph line between Buffalo and Sheridan and other points; C. H. Parmelee, Robert Fotee, W. J. Thom and others.

Reserve Construction Co., Cleveland, O.; $10,000; to construct telephone, telegraph and railway lines and electric plants; S. Prentiss Baldwin, B. Mahler, James B. Hogg, Fred S. Barton and Charles W. Mason.

Oklahoma Telephone Co., Oklahoma City, Okla.; $100,000; to build, sell and operate telephones throughout Oklahoma territory; Harry C. Barter and George R. Gorden, Brownington, Mo.; Wm. E. Moore and McGregor Douglass, Oklahoma City.

Illinois Telephone & Telegraph Co., Chicago, Ill., $250,000; Ralph N. Bowman, Samuel N. McLaughlin and Thomas J. Holmes.

Mountain Home & West Plains Telephone Co., Mountain Home, Ark.; $5,000; C. W. Brown, Pres.; M. N. Dyer, B. E. Massey, R. C. Paul, W. F. Eatman and R. C. Love.

Monmouth Telephone Co., Monmouth, Me.; $10,000; with $250 paid in; to operate lines in Monmouth, Wayne and Litchfield; Pres., J. H. Gilman; Treas., H. M. Blake, Monmouth.

Atchison Telephone Co., Topeka, Kan.; $20,000; Ed H. Berry, C. D. Walker, George Storch, J. T. Hersey and S. A. Frazier.

Beverly & Marlinton Telephone Co., Huttonsville, W. Va.; $5,000; Perry Bosworth, J. L. Bosworth, of Huttonsville; A. S. Bosworth, of Beverly; T. C. Russell and C. A. Barlow, of Cricord.

Franklin Telephone & Telegraph Co., Philadelphia, Pa.; $40,000; Pres., D. K. Appenzellar; Secy., H. B. McNulty; Treas., Dr. David Maclay; T. M. Mahon, D. L. Grove, Isaac Lesher, W. I. Minick, John C. Gerbig, Dr. J. O. Skinner, Dr. R. W. Ramsey, A. N. Pomeroy, Alexander Stewart, H. E. Holtsizer, T. J. Kennedy, R. S. Smiley, A. S. Stover, W. C. Hull, John Zullinger, C. C. Gelwicks, Christian Brechbill.

Eastern Solar Gas Machine Co., New York; $100,000; to manufacture machinery for the use of acetylene gas; Walter C. Butler, Orange, N. J.; John U. May and Arthur J. Stewart, Cleveland, O.; J. Severin Charlesson, Calvin Tompkins, John De Witt Warner and Charles A. Wimpfheimer, New York.

Chase Carbide & Gas Generator Co., Portland, Me.; $300,000, commencing with $50; to generate and deal in acetylene gas; Pres., Louis C. Stanwood, Newton; Treas., Edward B. Hitchcock, Newton.

New York Kerosene Oil Engine Co., New York; $50,000; to manufacture kerosene oil, gas, steam and electrical engines and motors for marine and industrial uses; Feodor C. Hirsch, 606 East 134th St., and George R. Moran, New York; James W. Eaton, West Islip, (L. I.), N. Y.

Union Bridge Co., Trenton, N. J.; $1,800,000; to construct public works; Joseph Mayer, E. Ludlow Gould, Nathaniel Haven, Charles S. Smith, New York, and George A. Miller, Montclair.

California Dredging Co., San Francisco, Cal.; $25,000, commencing with $18,088; Wm. E. Palmer, Fred S. Mayhew, Fruitvale, Cal.; William M. Klink, Luther J. Holton, Frank B. Peterson and S. W. Cheyney, San Francisco; J. M. Goodman, Alameda, Cal.

Home Telephone Co., Marion, Ia.; $5,000; J. S. Alexander, Pres.; Geo. M. White, Vice-Pres.; F. C. Schminke, Secy.; T. J. Davis, J. S. Ovington, William M. Downie and C. L. Nye.

Eureka & Mound City Telephone Co., Eureka, Minn.; $2,000; F. W. Boettcher, Walter C. Poehler, Eureka; Louis H. Clyborne, Chauncey E. Eckhart, Mound City; Alvin H. Poehler, Minneapolis.

Montour & Columbia Telephone Co., Vanville, Pa.; $25,000; to run lines in Columbia and Montour counties; James H. McDevitt, C. M. Clement, Sunbury; R. K. Polk, F. C. Angle, E. Carman, C. P. Hancock, Danville; H. E. Murty and J. P. Heifenstein, Shamokin.

Missouri & Iowa Telephone Co., Princeton, Mo.; $25,000; J. S. Rogers, H. G. Orton, E. M. Hyde and others.

Winston Telephone Co., Princeton, Mo.; $1,000; G. Orton, J. B. Hyde, C. P. Rogers and others.

Wilson Mfg. Co., New York; $600; E. K. Baber, Keeseville, N. Y.; R. F. Wilson, East Orange, N. J.; R. E. Oatman, John Leighton and W. W. Tucker, of New York.

Huntington Mining Co., New York; $1,000; C. W. Bradley, G. H. Huntington and D. F. Lloyd, of New York; William Berden, Paterson, N. J.; and James H. Brown, Rutherford, N. J.

Hooker Steam Pump Co., St. Louis, Mo.; $30,000; J. E. Gorman, W. D. Hooker, W. C. Farrar and R. L. McLaren.

Overland Dry Cuncentrating Co., Lincoln, Neb.; $550,000; Ed. Bignell and Jesse S. Waugh, all of Lincoln; Eugene Waugh, Denver, Colo.

National Arc Lamp Co., Berwick, Me.; $10,000, commencing with $300; to manufacture and deal in electrical and other mechanical devices; Pres., C. C. Barton, Framingham, Mass.; Treas., John R. Hosmer, Boston, Mass.

Standard Quarrying & Construction Co., New York; $1,000,000; Walter J. Roberts, Henry E. Parsons and John F. Clark, New York; offices at Phoenix, Ariz., and New York.

Oklahoma Telephone Co., Oklahoma City, Okla.; $100,000; to build, own, buy, sell and operate telephone lines throughout Oklahoma territory; Harry C. Barter and Geo. R. Gorden, Brownington, Mo., Wm. E. Moore and McGregor Douglass, Oklahoma City.

M. S. Friede Co., New York; $20,000; to supply railway equipments; M. Sergery Friede, 18 East 106th St.; Jos. S. Friede and Harry Harris, all of New York.

Manning Signal Light Co., Des Moines, Ia.; $100,000; to manufacture and dispose of the Manning signal light, which Mr. Manning has invented and has patented with special adaptations to railway work; Edward S. Manning, H. J. Mills, Samuel Compton, C. A. Bishop, W. D. Sheehan.

Cuban Development Co., Jersey City, N. J., incorporated in West Virginia; $5,000,000, commencing with $2,500; to cultivate land in Cuba, and to construct railways, electric light plants, water-works, etc.; Carroll Burman, Washington, D. C.; Julian Cendoya, Bethlehem, Pa.; S. J. Dickerson, G. A. Denham and Raymond Moore, of New York.

Ashburnham Mfg. Co., Boston, Mass.; $1,000,000, commencing with $500; to manufacture railway cars and appliances, etc.; H. W. Bates, John D. Huhn and R. L. Stedman, of Boston; E. A. Petit and E. D. Luxton, of New York.

Feliz Sugar Co., New York; $500,000, commencing with $200; to manufacture and deal in sugar; Michael Dillon, Frederick Blasenbrey, Robert Wheelan, Morris Cooper and S. I. Kelton, all of New York.

Avor Brick Co., 76 Montgomery St., Jersey City, N. J.; $100,000, commencing with $2,000; to manufacture and work clay, metals, etc.; David P. Van Deventer, Jr., Alfred C. P. Quimby and Edward A. O'Callaghan, of 76 Montgomery St., Jersey City; August C. Rader, Montclair, N. J.

Hadaway Electric Heating & Engineering Co., New York; $50,000; Harold S. Mackaye, 225 West 106th St.; Harcourt Brigham and Nelson Hiss, all of New York.

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